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Best Local :
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08*SEP*1997;
30*SEP*1997;
30*OOT*1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           this sequence represents a human oestroden receptor. The receptor can be used to laboutify liquids that bind to human destroden receptor. The liquids can be used in a method for preventing or treating an destroden receptor mediated discuss of condition, such as abnormal bone resorption, a cardiovascular discusse, concer, metabolic disorders, or central nervous system disorders. The liquid is especially used to treat osteoporosis, breast, utetime, ovarian or prostate cancer, diabetes or Alzheimer's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; bestroden receptor; liquad; bone resorption; metabolic disorder; radi masselar likera (1997) and partial servers system, breast, uterias
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                                   24) MAGKAKKSAMHAPPVPELLIMALSPEQLVIILLEAEPPHVLISRPSAPFTEASMMMSLTK 300
                                                                                                                                                                           12) KEILKKKVSGNRCASPVTGPOSKRDAHFCAVCSDYASGYHYGVWSCEGCKAFFKRSIQGH 180
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100.0%; Pred. No. 3.6e-259;
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15-MAR-1996;
11-APR-1996;
                                          A novel human orphan receptor (WH*24) is related to the known accitions receptor ER-alpha, and has been destanted by bota. It is an ostrogen receptor related state destantian receptor. The BE beta affine acid sequence was deduced from a classificated from a human testis cDNA library. But human and mease EF-beta (WH*24-25) can be used to isolate modernies for use in the treatment of conditions of the conditions.
                      treatment of cardiovascular diseases, central mercuas system
                                                                                                                                                                                                                                                                     Claim 1; Fig 14A; 45pp; English
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  Gustaisson J,
                            (REGC ) UNIV CALIFORNIA.
                                                    04-SEP-1997;
                                                                                                                                W09911760-A1
                                                                                                                                                      Homo sapiens
                                                                                                                                                                                      differential estrogen receptor; ER-alpha; ER-beta; activation,
                                                                              31-AUG-1998;
                                                                                                        11-MAR-1999
                                                                                                                                                                               AP1 site; therapy
                                                                                                                                                                                                                   An estrogen receptor beta protein.
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                                                                                                                                                                                                                                                                                              Y01597 standard; Protein; 485 AA,
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Kushner PJ,
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Best [ocal :
estone; estriol; screening.
                         Gestrogen receptor protein; steroid; alternative splicing; estradiol;
                                                                                                                    Human oestrogen receptor protein.
                                                                                                                                                                                                                                                                                       W33212;
                                                                                                                                                                                                                                                                                                                                                                         W33212 standard; Protein, 477 AA
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mix beta 3). The mix beta ( dec X.45 °) ventains ( X.48, 0) inclinding the newly described even [6, which is not bened in EM 20 beta-1. Exem 5% is located in the indand whiching demand of mEM 20 beta-3, and probably plays a significant role in max located in the mEM beta-1 clone was isolated by HPCK of meMA, and by amplification trem a mease earlymin atom cell general MAA. The mEM beta-1 to another two that the mEM beta-1 to account the mEM beta-1 to account the mEM beta-1 to 11 decks exems 5%. Preliminary data indicate that the mEM beta-1 to 12 soform may be more active than the full-length mEM beta-1 ( see WHELE). 2 other isolorms, mEM beta-2 ( see WHELE), and full tell beta-1 ( see WHELE). 2 other isolorms, mEM beta-2 ( see WHELE), and full tell tell to the invention ( see X24944) has been identificed. Hased on these sequences to be invention provides methods for identifications about that block of determine whether mediated transcript could be a below that block of determine which the beta-1 that the mEM section is below that the second full this provides methods to the transcript could be a block to the second full that the mEM beta-1 the mEM beta-1 than the mEM 
                                                                                     tissues or cells, and methods of identifying and using genes that block the transcriptional regulation of genes by ER teta c or its isoforms, which in 'urn modulates other bicomplea, and pathonoglical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human oestroden receptor beta 3
Sequence
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of the muritie complete constitutes receptorited (ER betails of
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68.78; Fred. No. (4-230)
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                                                                                                                                                            Claim 9; Fiq 2a; 89pp; English.
                                                                                                                                                                                      Novel murine destroyen receptor-beta genes and splice variants useful for treating destroyen receptor-beta mediated disorders
                                                                                                                                                                                                                                                                                                                                                                                                               Mus sp
                                  complementary nucleic acid can be used to inhibit expression of the
                                                                                                                                  The present invention describes the murine complete oestrogen receptor
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                      beta c nucleic acid.
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Human oestrogen receptor beta-3 - useful

in treating and monitoring

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Best Local_Similarity
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B5.8%; Pred. No. 3.2c-228;
ative 25; Mismatches 35; Indels 18
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15-MAR-1996;
                        A novel rat orphan receptor (W14723) is related to the known obstrogen receptor ER-alpha, and has been designated ER-beta it is an obstrogen receptor related nuclear receptor. The ER-beta unified sequence was deduced from a CDMR clone (TGC842) isolated from a rat prostate cPNA library. Bat, human and mouse ER-beta (W14723-25) can be used to isolate molecules for use in the
                                                                                                                                                                                                                                                                                                                         New isolated destroyen receptor beta - used to develop prods. for
treating e.g. canders, CNS diseases, estemporesis or cardiovascular
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      treatment of cardiovascular diseases, central nervous system
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                                                                                                                                         differential estrogen receptor; ER alpha; ER-beta;
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           N. P.SDB.; X25582
N. P.SDB.; X25582
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Parch K,
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                                                                                                                                                 08-JUN-1997 (tirst entry)
                                                                                                                                                                                                                                                                                                              W14°25 standard: Protein: 485 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               which can be used in therapy.
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                                                                            Mouse oestroden receptor beta (ER-beta)
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uphan receptor; oestroden receptor beta; Ek-beta;
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B8.7%: Pred. No. 3.4e-210;
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08 SEP-1995;
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central nervous system diseases, osteopolosis, prostate of ovariab
funces of Ecoly, postable hyperplusia and to test environmental
chemicals for destrogenic activity.
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                                                                                                            oestrogen receptor Ekralpha, and has been designated Ekrach. It is an oestrogen receptor insided between the respirat. The Ekramino acid sequence was deduced from a CANA claus (16,644) kat, human and mouse Ekr-beta (W1472×25) can be used to isolate
                                                                                                                                                                                                                                                                                            Claim 1; Fig 14A; 45pp; English
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ovary cancer: cardiovascular disease: osterper sis:
                                                                                      Authorates for use in the treatment of cardiocascular diseases
                                                                                                                                                                                                                                 A novel mouse orphan receptor (W14^{9}2^{\circ}) is related to the known
                                                                                                                                                                                                                                                                                                                                                                             New isolated destroyen receptor beta cased to decrete product to the treating coarsers, anders, CNS diseases, estepeniorists to endirease that
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Query Match 80.8%: Secre 2267: Della: Fenath 485: Best Local Similarity 88.0%; Fred. No. 6.7e 208; Matches 427: Conservative 24: Mishatches 65: Indels 8: Saps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               226 YRLVRRORSADEOLH AGNANRSO HAFRVEFTLILDAISLE I VLITLEAEFHIVLISKE 285
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                                                      Query Match
Best Legal Similarity
                                                                                                                               triphenylethylene (anti)oestroyens. The antibody which binds the protein can be used in assays to detect activation of the ER beta protein and can be used for subcellular localisation of the protein. The
                                                                                                                                                                               The present invention describes the marine complete destroyen receptor beta (MER beta c; also descipated MER beta-3). The present sequence represents MER beta-2, which is an isolorm of MER beta c. The protein
                                                                                                                                                                                                                       Claim 9; Fig 2b; 89pp; English.
                                                                                                                                                                                                                                                                                          Baron R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Y04445 standard; Protein; 510 AA
                                                                                             Sequence
                                                                                                                                                             can be used to screen for agents that modulate or block the interaction between the ER beta c protein and physiological, stilbene or
                                                                                                                                                                                                                                        useful for treating destrogen receptor beta mediated disorders
                                                                                                                                                                                                                                                   Novel murine destrogen receptor beta genes and splice variants
                                                                                                                                                                                                                                                                      WP1; 1999-142853/12
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RESULT 15
The present sequence is alternatively spliced isoform mER beta 2 of the murine complete costrogen receptor beta (ER beta 4, or mEP beta -2, or mEP beta -3). The mEP beta 3 gene (see x24433) collisions of exercise beta-1. Exon 58 is located in the ligand binding domain of mER beta-1. Exon 58 is located in the ligand binding domain of mER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  W98126 standard; Protein; 510 AA
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## SUMMARIES

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SEQUENCE FROM N.A. (ISOFORM BETA ZA).	⊒bmitted (JUN 1996) to the bMbb, a smark/likJ databases 6∣	D., Taylor R.	SEQUENCE OF 59-540 FROM N.A. (18 FORM BEIA 'A AND BEIA-6).	Nucleic Acids Res. 26:3505 3512(1998). [5]	beta ex: a potential inhibitor of estroden action in human.":	"Modesular storing and characterization of human estrone, resentor	Odawa S., Inone S., Watanabe I., erimo A., Boso, I., eachi Y.	MEDLINE 98337908; PubMed 9671811;	SEXMENTE FROM N.A. (IN FORM BETA JAIX), AND CHARACTERIZATION.	PEBS Lett. 392:49 53(1996).	"ER Deta: identification and characterization of a nove, banar. extreme		MEDLINE: 96354875 PubMed-8769+1+;	SEQUENCE OF 48-530 FROM N.A. (ISOFORM BETALT), AND CHARACTERIZATION. TISSUE-TOATIA:		Biochem. Biorhys. Res. Commun. 247:75 78(1998).	"Cloning and characterization of human estragen receptor beta isoforms ":	٠.	Mode J.H., McKer Dib., wiestowkelet K., Walte Lik., Joses S.A.,	MEDITNE-983(0)386 - PubMed 9636557:	SEQUENCE FROM N.A., AND ALLEKNALIVE SELICIN).	Biochem. Biophys. Res. Commun. 243:122 124(1998).	(instruct) and its networtherization with or diplia is six and in	d human estroden receptor teta	ogawa S., Inoue S., Watanabe I., Birol B., erim A., Best I.	MERCINE 98139878; Polymod 9473491;	CENTENDED DELLA A A CICLETTA DELLA DISTA DELLA D	Manunal) des Buthestas Primates Palasson, Educate Buthest Bands Sacrabations	ESR2 OR NR3A2 OR ESTRIC	ESTROSEN REPERIOR BETA (ERORETA).	DECUMENDAM (Ref. 38, Last septence ipdate)	15-JUL-1969 (Rel. 38, Treated)	992731; 060685; 060608; 075584); 360702; 060704; 03588x; 086080;		

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"Human estrogen receptor beta binds DNA in a manner similar to and dimerizes with estroyen receptor alpha.";
J. Biol. Chem. 27:25832-25838(1997)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE-98348389; PubMed-9685228;
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SUBUNIT: BINDS DNA AS A HOMODIMER. CAN FORM A HETERODIMER WITH ERALPHA. ISOFORM BEIA-2/CX PREFERENTIALLY FORMS A HETERFODIMER WITH EP-AIPHA PATHER THAN FR-META AND INHIBITS DNA-RINDING BY ER-ALPHA.

-!- SUBCELLULAR LOMATION: NUCLEAR. -!- ALTERNATIVE PROPUCTS: % ISOPOPMS: HETA-1 (SHOWN HERE), RETA-2/CX, RETA-2A, BETA-3, BETA-4, BETA-5, BETA-5A AND BETA-5: ARE PRODUCED

HY ALTERNATIVE SPLICING.

-I- TISSUE SPECIFICITY: ISOPORM BETA-1 IS EXPRESSED IN TESTIS AND CYARY, AND AT A LOWER LEVEL IN HEART, BRAIN, PLACENTA, LIVER, SKEIFTAL MISCLE, SPLEEN, THYMUS, PROSTATE, COLON, BONE MARROW, TESTIS, AND AT A LOWER LEVEL IN SPLEEN, THYMUS, OVARY, MAMMARY GLAND AND UTERUS. ISOFORM BETA-5 IS EXPRESSED IN TESTIS, PLACENT SKELETAL MUSCLE, SPLEEN AND LEUKOCYTES, AND AT A LOWER LEVEL IN HEART, LUNC, LIVER, KIDNEY, PANCERAS, THYMIS, PROSTATE, COLON, SMALL INTESTINE, BOUND MARROW, MAMMARY GLAND AND UTERUS. NOT MAMMARY GLAND AND UTERUS, ALSO FOUND IN OTTERINE BONE, BREAST, AND OVARIAN TUMOR CELL LINES, BUT NOT IN COLON AND LIVER THMORS ISOFORM BETA-2 IS EXPRESSED IN SPLEEN, THYMOS, TESTIS AND OVARY AND AT A LOWER LEVEL IN SKELETAL MUSCLE, PROSTATE, COLON, SMALL INTESTINE, LEUKOCYTES, BONE MARROW, MAMMARY GLAND AND UTERUS. ISOFORM BETA-4 IS EXPRESSED IN EXPRESSED IN BRAIN PLACENTA,

DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN A DRA BINDING DOMAIN AND A C-TERMINAL STEROID-RINDING DOMAIN SIMILARUTY. BELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY.

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EMBL: EMB1.; EMB1.; AF061054; AAC39784.1; -. AF061055; AAC39785.1; -. AF060555; AAC15234.1; -. AF051427; AAC05985.1; AF051428; AAC05751.1; X99101; CAA67555.1; ALF\_INIT. AB006589; BAA31966.1; -. ARAAAAA HAA24453 ];

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SUDMITTED (JUH 1999) to the EMBL/Check-ni-ydbg databases.

1. FUNCTION: BINUS ESTROGENS WITH AN APFINITY SIMILAR TO THAT OF ERALLHA, AND ACTIVATES EXPRESSION OF REPORTER GENES CONTAINING ESTROGEN RESPONSE ELEMENTS (ERE) IN AN ESTROGEN-DEPENDENT MANNER ISOFORMS BETA-1/TE!TA-2 AND RETA-2 THE TRUNCATION OF THE DNA AND ACTIVATE TRANSCRIPTION DUE TO THE TRUNCATION OF THE DNA AND ACTIVATE TRANSCRIPTION DUE TO THE TRUNCATION OF THE DNA AND ACTIVATE TRANSCRIPTION DUE TO THE TRUNCATION DETERMINED AND SUPPRISSES ER-ALPHA AND ER-BETA-1 MEDIATED TRANSCRIPTIONAL, ACTIVATION AND MAY AND ER-BETA-1 MEDIATED TRANSCRIPTIONAL ACTION.

TEAMSCRIPTIONALLACTIVATION AND MAY ACT AS A DOMINANT NEGATIVE REGULATOR OF ESTROGEN ACTION.

ACTUAL AND ACCOUNTED TO THE TRUNCATOR A HETEFODDIMER WITH ER-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL; U57439; AAC52602.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      the European Biointormatics Institute.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STRAIN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "A novel splice variant of estrogen receptor beta found in rat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PARTIAL SEQUENCE FROM N.A. (ISOFORM BETA-1/DELTA-4)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Brown
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Peterson D.N., Tkilermie G.T., ES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SIRAIN : SPRAGUE - DAWLEY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE OF 46-530 FROM N.A. (ISOFORMS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Aldridge T.C.; "Tissue specific responses to estroyen: an explanation based on
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRAIN-WISIAR; TISSUE-Prostate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TISSUE SPECIFICITY: EXPRESSED IN PROSTATE, OVARY, LONG, LIVER, KIDNEY, FAT, BONE, BRAIN, UTERUS AND TESTIS.
DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN, A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SUBCELLULAR LOCATION: NUCLEAR.
ALTERNATIVE PRODUCTS: AT LEAST 5 ISOPORMS: BETA-1 (SHOWN HIBETA-1/16-11/A-4 FFTA-2/DELTA-3,
                                                                                                                                                           AF042051 AAB97426 1;
AF042059 AAB97426 1;
AF042050 AAB97426 1;
AF042060 AAB97427 1;
AF042061 AAB97427 1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRODUCED BY ALTERNATIVE SPLICING.
                                                                                                                                                                                                                                                                                                                                                                          AJ002602; CAA05631.1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ., Handa R.J.;
IPR001628;
                                                                                                     IPR000324;
                                                                    1PR000536;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CAN ALSO FORM HETERODIMERS BETWEEN ISOFORMS BETA-1 AND
                                                                                                                                  THCP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               institutions as long as its content is in
                                                                                                                                                                                                                                                                                                                                          ALT_INIT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  is not removed.
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PRINTS; PR00047; STROIDFINGER
PRINTS; PR00350; VITAMINDR.
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Pecceptor: Transcription regulation; UNA binding;
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PRINTS; PRO0546; THYROIDHORME.
481 OKNVVPYYDLILEMINAHTERSYSSSSSSSSSSTATAR [1] [1] [1] [1]
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RESULT 4
ESR2\_MOUSE

ESR2\_MOUSE STANDARD; 008537; 035635; 070519;

530 AA

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SEQUENCE OF 1.60 FROM N.A. STRAIN "TELTS I X 1123, TISSUE (CLAI).

ROSELLEM (C.S., Lobahin D. B.)

Submitted (MAY-1998) to the EMBL/Genkank/heed databases
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well Endoction] 11:486-1800-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Labrice F., Gignere V.; "Cloning, ethologonal localization, and functional analysis of the morine estimate receptor heta.": Mod. Endocrinol. 11:454-465(1997).
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Mammalia: Entheria: Rodentia: Scinromathi; Muridae: Murinae: Mus
NCRL_laxEb-leoso:
                                                                                                                                                                                                                                                                         Hardy M.E., Imbahn D.E.:
"Iranscription and translation of estrogen receptor-beta in the male reproductive tract of estrogen receptor-alpha knock-out and wild-type
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-11 mm1 Zune (Rel. 4:, Last annotation update)
ESTROGEN RETENTION HELA (ER-BETA).
                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE 98268825; PubMed 9607809;
Rosenteld C.S., Ganjam V.K., laylor J.A., Yuan X., Stiehr J.K.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mol. Cell. Endocrinol. 138:199-203(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LorB., Leyane E., Gotslaw H., Morphy L.J., Morphy L.C., Watson P.H. "Estronen receptor-beta mRNA variants in human and morine tissues."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ALLERNATIVE SPLICING
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                                                                                         SIMILARITY: HELDINGS TO THE NUCLEAR HORMONE PEOPPEOPS SIMILARITY: HELDING TO THE NUCLEAR HORMONE PEOPPEOPS.
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ALPHA.
                                                                                                                                                       HISSUE SPECIFICITY: EXPRESSED IN PROSTATE, OVARY, LEYDIG CELLS AND OF THE INITIAL SEGMENT
                                                                            NEA SUBFAMILY
                                                                                                                                           OF THE EPIDIDYMIS.
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BETA-5, BETA-5A AND HETA-6; ARE PRODUCED BY ALTERNATIVE
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ve; is the EMRC/Schamb/JCPC databases
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the European Biointermatics Institute. Thuse by non-profit institutions as long

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Plam: PF00105: z1-c4: 1.
Plam: PF00105: z1-c4: 1.
PRINTS: PK00040: STROIDFINGER.
PRINTS: PR00450: VITAMINIR.
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S. A. ABCTISHES SITMITATORY F. S. A. ABCTISHES STEM RETA (A).

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01-0CT-2000 (Rel. 40, Created)
                                                                                                            use by non-profit institutions as long modified and this statement is not removed.
                                                                                                                                between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on it use by non-profit institutions as long as its content is in no w
                                                                                                                                                                                        This SWISS PROT entry is copyright. It is produced through a collaboration
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                                                                          or send an email to licensemisb-sib.ch).
                                                                                            entities requires a license agreement (See http://www.isb-sib.ch/announce,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               421
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                                                                                                                                                                                                                                                                    DOMAIN, COMPOSED OF LIBERT AMELIAN A MODULATING N TERMINAL DOMAIN A DNA-BINDING DOMAIN AND A C-TERMINAL STEPOID-RINDING DOMAIN.
                                                                                                                                                                                                                                                                                                                                                                                FUNCTION. BINDS ESTROGENS WITH AN AFFINITY SIMILAR TO THAT OF EE ALFHA, AND ACTIVATES EXTRESSION OF PROFILE GENES CONTAINING ESTROGEN RESPONSE ELEMENTS (ERB) IN AN ESTROGEN-DEPENDENT MANNER. MAY FLAY A KALE IN OVALIAN FOLLIGHAE SCOTH AND MATURATION.

SUBUNIT: BINDS DNA AS A BOMODIMER. CAN FORM A HETEPODIMER WITH EP-
                                                                                                                                                                                                                                                                                                                            ALPHA (BY SIMILARITY).
RIPSTUE SPECIFICITY: PRESENT IN GPANUTOSA CELLS OF ANTRAL FOLLICLES
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                                                                                                                                                                                                                                                    SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY.
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                                                                                                                                                                                                                                  NK3 SUBPAMILY
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InterPro: IPR000536; -
InterPro: IPR001628; -.
InterPro: IPR001723; -.
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PROSITE;
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DOMAIN 1 145 MODULATING.
DNA_BIND 146 211 NUCLEAP RECEPTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRINTS;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOD_RES
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      478 CKNAAAASTITEHTITITI TITTIT STITTI SESKESSÄK POSÄ 227
                                                                                                                                                                             AMNITHER WAYNS WHATER FOR THAT THE FOUR TRANSPORT BY THE FOREST AND THE FOREST WAYNS WITH THE FOREST BY THE FOREST
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                                                                                    481 CKNVVPVYDILLEMLNAHVLRGCKSSIIGSEISFAFISKSKEISENPOSO 530
                                                                                                                                                                                                                                                                       12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         301 LADKELVHMISWAKKIPGPVELSLEDQVRLLESCWMSVLMMCLMWRSIDHPGKLIFAPDL 360
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241 CAGKAKPSGCHAPPVPELLLDALSPEQLVLTLLEAEPPHVLISRPSAPFTEASMMMSLTK 300
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                                                                                                                                                                                                                                                                                                                                                           TIDRDEGKCVEGILEIFDMLLATTSKERELKIJHKEYLJVKAMIILNSSMYPSATAPQEA 417
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LADKELVIIMISWAKKIPGEVELSLYPQVPLLESYWLEVLMVGLMWRSIDHPGKLIFADDL 457
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87.9%; Pred. No. 3.5e-189;
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      RESULT
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      ESR2_SHEEP
      STANDARD;
      PRT;
      527 AA.

      ID
      ESR2_SHEEP
      STANDARD;
      PRT;
      527 AA.

      AC
      09TU15;
      0980T6;
      01-007-2000 (Rel. 40, Created)
      01-007-2000 (Pa)
      40, Last sequence update)

      DT
      01-007-2000 (Pa)
      40, Last sequence update)
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                                                                                                                                                                                                                                                                                                                                                          EN_FIND
                                                                                                                                                                                                                                                                                                                                                                                                   Re-Sile; PS-0003; NUCLEAR RETEPLOR; 1.
Receptor; Branscription regulation; PMA-binding; Nuclear protein; Sinc-finger; Storoid-binding; Allocative splicing; Phosphorylation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRINTS: PRODUCTS: STROTOTINGER PRINTS: PRODUCTS: VITAMINDE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro: (PRO)1723; -.
Planc PRO>154: hormone_rev; 1
Planc PRO>155; 71-04; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    or send in email to license disb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Submitted (AUG-1999) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A. (IS PORMS BETA AND BETA 1)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           InterPro: IPR001628;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               InterPro: IERBOOT24;
                  61 NVINLEGGEGROTISENVIMETEGHLSELVVHRQLSHLYAEPQKSEWGEARSLEHTLPVN 120
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ALLERNALIVE PROJUCIS: AI LEAST Z ISOFORMS: BETA (SHOWN HERE) AND BETA-1: ARE PROJUCED BY ALLIERNALIVE SPLICING.

LEMAIN - CHESCHEL & EBEFF LEMAINS A METALATING NETERMINAL DEMAIN.

A DNA BUNDING DEMAIN AND A CELERMINAL SIERDID BUNDING DOMAIN.

SIMILARITY: REFERENCE TO THE NUCLEAR HOPMONE RECEPTORS FAMILY.
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                                                                                       METKNSPSSLNSPSSYNDSGSTLELEHGSTYTESSYVDSHHEYEAMTFYSDAVMNYSTPS 60
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PHOSPHORYLATION (BY SIMILARITY).
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SGD7A3689497EDEA CRC64;
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Bernard D.J., Bentley G.E., Barthazart J., Jubek F W., Bare S.E.;
"Andreagen receptor airba, and estreach receptor
beta show distinct patterns of expression in forebrain secar centri-
pactel of European starlings.":
                                                                                                                                                                                                                                                                                                                                                                                              TISSUE SPECIFICITY: BRAIN, PRIOTIAMS, SMELLIAE MUSTIF, TIVEF, ADRENAL, KLINTY, INTESTINE, AND CVARY

-TEDOMAIN: COMPOSED OF THREE DOADLYS: A MODULATING NOTERMINAL DOMAIN AND A CHARDHAL CODE OF STRUCKS OF MAIN.

-TE SIMILARITY: BELONGS TO THE NUCLEAR HORMONE PROVEDORS FAMILY.
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01-001-2000 (Rel. 40, Last sequence aparte)
01-001-2000 (Rel. 40, Last annotation aparte)
                                                                                                        This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioisformatics and the EMBL outstation
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-t- FUNCTION: KINDS ESTRUCTORS WITH AN AFFINITY SIMILAR
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Archosauria: Aves: Neognathae: Fasseritoises: Statildae: Statils
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ALPHA (BY SIMILARITY).
SUBMELLULAR LOCATION: NUMLEAR.
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                                                                                                                                                                                                                                                                                                                                                 NR & SUBFAMILY
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01-0CT-2000 (Rel. 40, Created)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRINTS; PRU0546; THYROIDHORMR
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PRINTS: PROCOSSO: VITAMINDR.
PRINTS: PROCOSS: STRONOMEN.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               InterPro: IPR001628;
InterPro: IPR001723;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    InterPro: IPR000324;
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                                                                                                                                                                                                                                                                                                                                    386
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                                                                                                                                                                                                                CKNYVEYYILLILIMLNAHYLIKGCKSSI TGSECSFAEDSKSKEGSQNFQSQ 530
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                                                                                                                                                                             CKNVVPVYDLLLEMLNAHTLRGQPKPLATHPEFGPLEQMEPGESLPKGEPQ 554
                                                                                                                                                                                                                                                                                              DSSRKLAHLLNAVTDALVWVIAKSCISSQQQSMRLANLLMLLSHVRHASNKGMEHLLNMK 480
                                                                                                                                                                                                                                                                                                                                    VILDPDFGKCVEGTTFTFDMTTAMTSFFFFFLKTQHKEYLCVKAMTILINSSMFFT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLGRARRYSHAATRYKHILLSTVSDEQHVLTILLEAHDHVILVSRDSKPFTBASMMSLIK 325
                                                                                                                                                                                                                                                                                                                                                                                                              LADKFLVHMIGWAKKIPGFIDLSLYDQVFLLESCWMEVLMIGLMWRSIDHPGKLIFAPDL
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                                                                               STANDARD;
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554
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74.8%; Pred. No. 3.3e-160;
Mative 50; Mismatches 80;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           52173 MW;
                    Last sequence update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MODULATING
                                                                               PRT;
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ZN_FING
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I SUPCEILUIAP LOCATION: NUCLEAR.

TESTE SPECIFICITY A HIGH EXPRESSION IS SEEN IN THE
TELENCEPHALON, DIENCEPHALON, PUTULTARY, TESTIS AND KIDNEYS BUT
LITTLE OF NO EXPRESSION IS SPEN IN THE OPPRICEIUM, PPOTOFAL MUSCLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss hastingthe of Richinformatics and the EMBL outstation the Empean Bioinformatics Institute. There are no restrictions on its use by non-poolit institutions as long as its content is in an way modified and this statement is not removed. Usage by and for examerolation these requires a license arrowed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Coturnix oturnix japonica (Japanese quali),
Eukaryota, Metazoa, Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Aves; Neognathae; Gallitormes; Phasianidae; Phasianinae;
                                                                                                                                                                                                                                                                                                                                                                                                  PRINTS: PROBESO; VITAMINDR.
PROSTOF: PROBESO; VITAMINDR.
PROSTOF: PROBESO; NUCLEAR_RECEPTOR; 1
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ESR2 OR NR3A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Interpre; [PRODIE28;
Pfam; PE00105; zf-C4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    avian brain."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Submitted (SEP-1998) to the EMML/JavaRank/Juudo dalabases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               roldart A., Lakaye B., Grisar T., Ball G.F., Balthazart J.;
"Sequence and neuroanatomical distribution of estrogen receptor beta
in the quail brain.";
                                                                                                                                                                                                                                                   SEQUENCE
                                                                                                                                                                                                                                                                       DOMAIN
                                                                                                                                                                                                                                                                                                                                                NIVMOG
                                                                                                                                                                                                                                                                                                                                                                                  Receptor; Transcription regulation; DNA-binding; Nuclear protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Interpre;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HSSP; P03372;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EMBL; AF045149; AAC36463.2; -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             or send an email to licensegisb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -1- FUNCTION: BINDS ESTROGENS WITH AN AFFINITY SIMILAR TO THAT OF ER-ALPHA, AND ACTIVATES EXPRESSION OF REPORTER GENES CONTAINING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NauraRapart 9 2743 2748(1998)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Partial cloning and distribution of estrogen receptor beta in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE-98438913, PubMed:9760113;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE OF 141-286 FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   InterPro; IPR000324; -.
                                                                                                                                                                                                                                                                                                                                                              zine-finger; Steroid-binding.
                106 PWCEARSLEHTLIVARETLIKERVSSNECASIV-100-0888FAMEGAVCSSVASGYHYGVW 164
                                                                                                                                                                     Local Similarity
61 PWCEARPLEPVLPVSRETLKEKINGSLCISPIASNPGSKEDABECAVCSDVASGYHYGVW 120
                                                                                                            46 MTFYSTAVMWYS:PSWVTRLLCCITCEQUTTSTRVEWPTFCHLSELVVHEQLSHLYALFQXS 105
                                                                            1 MAFCSPAMMNYNIASNFGDSESASVRQTSSPSILWSAPGHLSPLITHGQLSITYAEQPKS 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ESTROGEN RESPONSE ELEMENTS (ERE) IN AN ESTROGEN DEPENDENT MANNER. SUBUNIT: BINDS DNA AS A HOMODIMER. CAN PORM A HETEKODIMER WITH ER-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NR3 SUBFAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SIMILARITY: BELONGS TO THE NUCLEAR HOPMONE RECEPTORS FAMILY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A DNA-BINDING DOMAIN AND A C
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                                                                                                                                                                                                                                                   472 M;
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                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                        105
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                                                                                                                                                     69.8%; Score 1959; DB 1;
80.1%; Pred. No. 5.8e-149;
30: Mismatches 47;
                                                                                                                                                                                                                                                                                       104
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                                                                                                                                                                                                                                                   53411 MW;
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                                                                                                                                                                                                                                                                                       C4-TYPE.
                                                                                                                                                                                                                                                                       STEROID-BINDING
                                                                                                                                                                                                                                                                                                                              NUCLEAR RECEPTOR-TYPE
                                                                                                                                                                                                                                                                                                                                                MODULATING
                                                                                                                                                                                                                                                   DETATREOFIBIO 18BD CRC64:
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ESTA GEN RESERTOR BETA (EK-RETA) (GERB).
PRINTS: PRODUKT: STROIDFINGER
PRINTS: PRODUCTS: STROHORMINDER
PRINTS: PRODUCTS: STROHORMINER
                                                       InterPro: 19ko01628;
InterPro: 19ko01728;
InterPro: 19ko01728;
                                                                                                                                                                                                  entities replies a license agreement (see http://www.isb.sib.ch/announce, or send an email to license (isb-sib.ch).
                                                                                                                                                                                                                                           modified and this statement is not removed.
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STRAIN WHITE CEMBERN, LISSUE Testis.
STRAIN MITTER ST. Nakabayashi oli
Subaki M., Mitter St. Nakabayashi oli
Subaki M. Mitter St. Nakabayashi oli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Archosauria: Aves; Neodnathae; Gallitormes; Phasianidae; Phasianinae
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                                                                                                                                           HSSP; PO3372; 1HCP
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                                                                                                                       InterPro: IPFcous24: -.
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SHWAIN: COMPOSED OF THREE DAMAINS: A MODULATING N-FERMINAL DOMAIN.
A LANA BILLOLDS LOWAIN AND A COLERRINAL SIEMOLD-BINDING LOWAIN.
SIMILARITY: HELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EN ALIGIA. AND ACTIVATES EXPRESSION OF REPOSITE CENTS CONTAINING FEMALIGIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ESTROCEN RESPONSE ELEMENTS (ERE) IN AN ESTROCEN-DEFENDENT MANNER. SEBUNIT: BINDS ENA AS A HOMODIMER. CAN FORM A HETERODIMER WITH BE
                                                                                                                                                                                                                                                                                                                                                                   NE SUBFAMILY.
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FUNCTION: BINDS ESTROGENS WITH AN AFFINITY SIMILAR TO ER-ALPHA, AND ACTIVATES EXPRESSION OF BIODRIES GENES
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss institute of Bioinformatics and the EMBL outstation the European Bioinformatics institute. There are no restrictions on its
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PROSITE: PS00031: NUCLEAR_RECEPTOR: 1.

FOR Property Transcription regulation: DNA-binding: Nuclear protein:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Interpro; IPR001628;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            InterPro: IPR000536;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Zine-finger; Steroid-binding.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      InterPro;
                        410 MYPLYTAT-QUAUSSEKLAHLINAVTDALVWVIAKSGISSQQQSMRLANLIMILISHVEHA 468
                                                                                                                                                                                                                                                                                                           258 HIRELAGTGGGARTGRRGEGVVPQTQEAQSSALTPROLINKITEAEPPETYLMKELKKPF 317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  123 FLKRKVSGNRCASPVTGPGS-----KRDAHFCAVCSDYASGYHYGVWSCEGCKAFFKR 175
                                                                                                                                                                                              318 TEDSMMMSLTNLADKELVLMISWAKKIPGFVELDLSDQVHLLECCWLEVLMLGLMWRSVD 377
                                                                                                         450 BPGKLIFAPDLVLDKDEGKCVEGILEIFDMLLAITSFFRELKLOHKEYLCVKAMILLNSS 409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              13 PSSYNCSQSILPLEHGSIYIPSSYVDSHHEYPAMTEYSFAVMNYSIPSNVTNLEGGD--- 69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              83 ESPAAROSLSPSLEWPAHGHUSPLALHEQQPLVYREPAHSPWAEPKPLEH-----GQ 137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TISSUE SPECIFICITY: LIVER. INDUCTION: BY 17-BETA-ESTRADIOL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NR3 SUBFAMILY.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AUTSKLAGKKMAESEEGTSSVGGCFAGKGDMHFCAVCHDYASGYHYGVWSCEGCKAFFKR 197
                                                                                                                                                                                                                                                        TEASMMMSLTKLAFKELVHMISWAKKIPGEVELSLEPQVPLLESCWMEVLMMGLMWRSID 349
                                                                                                                                                                                                                                                                                                                                                                     D--EQLHCAGKA---KRSGGHAPRVRELLLDALSPEQLVLTLLEAEPPHV-LISKFSAFF 289
                                                                                                                                                                                                                                                                                                                                                                                                                              SIQGHNGYICFATNQCTIDKNRRKSCQACRLRFCYEVGMMKCGVRFEFCTYRGARHRRMP 257
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STOCHNLY OTALNOTITIESEKSODACKTESOTYVAMVKOGSETBOGYELVERORSA 1235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ----CEUTTSPNVLWOF---PRHISPLVVHRQLSHLYAEFQKSPWCEARSLEHTLEVNKE 122
                                                                                 HPGKLITSPOLKLMRDEGSCVEGILETFDMVLAATSPFREIKIQREEYVCLKATILLNPN 437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AH003356; BAA19851.1;
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62, Mismatches 121; Indels
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Matches 290;
              Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SUDMITTEG (APK-1998) to the LMBL/G BEOGRAPHING SIMILAR TO THAT OF FUNCTION: BINDS ESTROGENS WITH AN AFFINITY SIMILAR TO THAT OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Actinopteryqii; Neopteryqii; Teleostei; Bureleostei; Ostariophysi;
Cyptimitomas, Cypticidae, Cyptiminae; Outarsius.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa, Chordata; Craniala; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Carassius auratus (Goldtish).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ESTROGEN RECEPTOR BETA-1 (ER-BETA-1).
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01-00T-2000 (Pel
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                                                                                                                      ZN_FING
                                                                                                                                                                                                                                                                                                                                                                                    the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial cutilies requires a literary servence of (20 h/11 //www.isb-sib.eb/arrespress)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       469 SNKGMEHILLNMKCKNVVPVYDILLIEMUMAHVIJKCCKSSALIGERISTARUSFSKLIGSKIF
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss institute of Bioinformatics and the EMBL outstation
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                                                                                   SEQUENCE
                                                                                                    DOMAIN
                                                                                                                                                      DNA_BIND
                                                                                                                                                                              Zinc-finger; Steroid-binding.
DOMAIN 12 169
                                                                                                                                                                                                                                                PRINTS; PROOD47; STROIDFINGER PPINTS; PROOBSO; VITAMINUR.
                                                                                                                                                                                                                                                                                                                     HSSP;
                                                                                                                                                                                                                                                                                                                                     EMBL; AF061269; AAD26921.1; -.
                                                                                                                                                                                                                                                                                                                                                                     or send an email to licensemisb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     lehoudakova A.V., Pathak S., Callard G.V.;
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                                                                                                                                                                          DOMAIN
                                                                                                                                                                                                           Receptor; Transcription regulation; DNA-binding; Nuclear protein;
                                                                                                                                                                                                                              PROSITE; PS00031; NUCLEAR_RECEPTOR; 1
                                                                                                                                                                                                                                                                                                InterPro; IPR000324;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Motecular cioning of an estrogen receptor beta bublype from goldfish
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DOMAIN: COMPOSED OF THREE DOMAINS: A MODULALING N LEAMINAL DOMAIN, A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.
SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ALPHA (BY SIMILARITY).
SUBCELLULAR LOCATION: NUCLEAR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ESTROGEN RESPONSE ELEMENTS (ERG) IN AN ESTRORIM SHETEROGIMER WITH TRESUBBUNIT: BINDS DNA AS A HOWODIMER. CAN FORM A HETEROGIMER WITH TRES
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                                                                                                                                                                                                                                                                                   IPR001628;
 Conservative
                                                                                       568 AA; 63539 MW,
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236
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                                                                                                                                       190
 52.3%; Score 1466; DB i;
56.0%; Pred. No. 1.7e-109;
Mative 75; Mismatches 127;
                                                                                                           568
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                                                                                                                          C4-TYPE.
                                                                                                         STEROID-BINDING
                                                                                                                                                           NUCLEAR RECEPTOR-TYPE
                                                                                                                                                                                 MCENTE ATTING
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                                                                                       2D6/8D07/5pB/bF9 CRC64;
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Enkeryoter Motaroar Chordata; Cranifata; Vertebrata; Entelcostomi;
Actinopteryoti; Mospheryali; Feleostei; Entelcostei;
Frotan anthofteryali; Saimonitormes; Salmonidae; Oncorhynches.
                                                                                                                                                                                                                                                                                                                                                                                                                 this SWESS FEST entry is expyright. It is produced through a collaboration between the SWESS institute of Bioinformatics—and the EMBL outstation—
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01-001-2000 (Rel. 40) Last sequence update)
01-001-2000 (Rel. 40) Last annotation updat
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 FORTITINE BINDS ESTROADES WITH AN AFFINITY SIMILAR TO THAT OF EK-ALPHA, AND ACTIVATES EXPRESSION OF REPORTER GENES CONTAINING ESTROADEN BEFONDENT MANNER. ESTROADEN KESPONSE ELEMENTS (EFRE) IN AN ESTROADEN DEFENDENT MANNER. ESTROADEN (EV SIMILAR DANA AS A HOMODIMER. CAN FORM A HETERODIMER WITH ERACLED AS SIMILARITY).

1 SUBSTRUCTURE SIMILARITY DESCRIPTIONS INDICATED AS MODITARING INFERMINAL DOMAIN. A LRA BINITY ESMALL OF THERE LOWAINS: A MODITARING INFERMINAL DOMAIN. A LRA BINITY ESMALL AND A CHEMINAL SIERGID BINGING FAMILY. SERVICEMENT OF THE NUCLEAR HORMONE RECEPTORS FAMILY.
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Actinopterydii: Neopterydii; Teleostei: Enteressei; Neoterbastei
Acanthamorpha: Acanthopterydii; Fercamorpha: Bereitormes: Fercand
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MEDILINE 20461442; PubMed : 1005855;
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Proc. Natl. Acad. Sci. U.S.A. 97:10751-10756(2000).

11- FUNCTION: BINDS ESTROGENS WITH AN AFFINITY SIMILAR TO THAT OF ERCALIPHA. AND ACTIVATES EXPRESSION OF PEPORTER GENES CONTAINING ESTROGEN RESPONSE LIEMENTS (EFE) IN AN ESTROGEN-DEFENDENT MANNEY-

11- SCHUNIT: BINDS DNA AS A HOMODIMER. CAN FORM A HETERODIMER WITH PR-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation -
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keeeptor; Transcription regulation;
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ilarity 53.5%; Pred. No. 1.3e
Conservative 76; Mismatches
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239 QEHICAGKAKKSGGHAPPVÞELLI I ÞALSÞÞÓLVI TI Í LAFÞÞHVLÍ SRÞSAÞFTEASMMMS 297

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WD W.X., Ma X.H., Smith G.C.S., Nathanielsz P.W.;
"Differential distribution of Exalpha and Exbeta mKNA in intrautering Lissues of the pregnant thesus monkey.";
Am. J. Physicl. 278:C190.C198(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID-9544;
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01-0CT-2000 (Rel. 40, Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                      use by non-profit institutions as long a modified and this statement is not removed.
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                                                                                                                                                                                         PRINTS: PR00398; STEDHORMONER.
PRINTS: PR00546; THYROIDHORME.
PROSITE; PS00031; NUCLEAR_RECEPTOR; PARTIAL.
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                                                                    SEQUENCE
                                                                                                                                                                                                                                                Pfam; PF00104; hormone_rec;
                                                                                                                                                                                                                                                             InterPro; IPR001723; -. InterPro; IPR001728; -.
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                                                                                                                                         NON_TER
                                                                                                                                                         Zinc-finger; Steroid-binding; Phosphorylation
                                                                                                                                                                        Receptor;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ER-ALPHA, AND ACTIVATES EXPRESSION OF REPORTER GENES CONTAINING ESTROGEN RESPONSE ELEMENTS (ERE) IN AN ESTROGEN-DEFENDENT MANNER. SUBJUNIT: BINDS DNA AS A HOMODIMER. CAN FORM A HETERODIMER WITH ER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN.
A DNA-BINDING DOMAIN AND A C TERMINAL STEEGID-BINDING DOMAIN.
SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY.
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98.2%;
                                                                          31105 MW;
 Score 1398; DB 1;
Pred. No. 1.8e-104;
                                                                                                           PHOSPHORYLAIDON (B) SIMILAKIIT).
                                                                                                                            STEROID BINDING
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**TWO EST FORE FOREST PARTIES. (IN F. FEN. CLINA) of INA of Inding, characterization and tissue distribution. **

**Submitted (MAR-1999) to the EMBL, Anach, 25FH databases.

-1. FUNCTION: BINDS ESTROGENS WITH AN AFFINITY SIMILAR TO THAT OF EK-ALPHA, AND ACTIVALES EXPRESSION OF REPORTER GENES CONTAINING ESTROGEN-DEPENDENT MANNER. 1. SUBGULL: BINDS UNA AS A HOMODIMER. CAN FORM A HETERODIMER WITH ER SUBGULL: BINDS UNA AS A HOMODIMER. CAN FORM A HETERODIMER WITH ER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            use by non-profit institutions as long as its content is in no modified and this statement is not removed. Usage by and tor commer
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Eskary-da: Motazoa: Chordata; Craniata; Vertebrata; Enteleostomi;
Actinoptoryaci, Meopercyaci, Jeleostof, Euledeostof, Neotofeostof;
Actinoptoryaci, Avanthoptoryaci; Fercomorpha; Percitormes; Percoidei;
Actinoptoryaci, Avanthoptoryaci; Fercomorpha; Percitormes; Percoidei;
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0] 987-2000 (Rel. 40, Last sequence update)
0] 987-2000 (Rel. 40, Last annotation update)
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Zinc timer: Steroid binding.
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PRINIS: PRODUKT; SIROIDEINGER,
PRINIS: PROPUSS: VIIAMINDR,
PROS (TE: PSO0031); NUCLEAR_RECEPIOR;
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HSSP: FOR372; THCP
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                                                                                         SHW'ELLULAR D'CALION. NUCLEAR.
LOMAIN: COMPOSED OF THEER DOMAINS: A MODULATING N-TERMINAL DOMAIN,
A LUA-GINDID DOMAIN AND A CT-LERMINAL STERGID-BIRDING DOMAIN,
SIMILARITY: RELONGS TO THE NUCLEAR HORMONE RECEPTORS FAMILY.
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Ogawa, Saitama Medical School, Department of 2nd Biochemistry; Morohongo, Moroyama, Truma-gan, Saitama-350-0495, Japan (E-mail:suogawa@saitama-med.ae.)p. Tel:81-442-76-1440,
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Submitted (11-NOV-1996) 3. Sambhan. Medical Research Contest.
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Controllor Reproductive Biology, 37 Chaimers Street, Edinburgh,
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Submitted (16-Aug 1999) obstatries and Specelogy, Indiana University, 1001 Walnut St., Indianapolis, IN 46202, USA
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Rat Gestrogen rece DNA encoding an es Murine mER beta-3 Bovine ER-beta cDN

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Human destrogen receptor-beta coding sequence  $\varepsilon$  useful in the production of human destrogen receptor-beta and identification of

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human oestrogen receptor-beta interactive compounds

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Query Match
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Matches 1686; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (hEK-beta, see W97858) containing 45 previously unknown N-terminal amino acid residues that are believed to contribute to the
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                                                                                                                                                                                                                                                     human testis CRNA in order to study opstream translation initiation codoms using 5' RACE-PSE technology. This receptor is able to bind and be activated by estradiol, estone and estriol, can be used in a screening ussuy for the identification of new drugs e.g. novel ligands or hormonal
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08-SEP-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A cDNA clone (16284%) codes for a novel bulban restroach receptor related maclear receptor (Wis724), designated ER-bata. It was isolated from a bulban testis cDNA library using rat ER bata cDNA (see also %62842) as probe. The bulban ER-teta dene was mapped to chromosome 14 region 14422 23. Kat, haman and mouse ER-beta (W14723-25) can be used to isolate molecules to use in the treatment of cardiovascular diseases, central nervous system
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                                                                                                                                                                                                                                                                                                                                                                                              Sequence 1460 BP;
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Rest Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                            of new drugs e.g. novel ligands or hormonal analogues, however this variant does not contain an AF 2 region and therefore probably lacks the ability to modulate transcription of target genes in a ligand dependent
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Glaim 5; Page 28 29; 45pp; English.
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Best Local Similarity 86.9%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                transcription of genes that include an estrogen-response element. It is significantly less active than estrogen receptor-alpha. ERb (also its isoforms and peptides containing its Higand-binding domain), nucleic acid (III) encoding them, or vectors and cells containing (III) are used to identify Higands (agenists or intaperists) of FMH, particularly specific ligands that do not bind to the estrogen receptor-alpha. These Higands are potentially useful for treating ERb-associated disorders, particularly cancer of the overy or prostate, or esteoporosis. This sequence encodes the beside ER-beta protein described in the method of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            estrogen-response element, ovary, prostate: osteoporosis; ds
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (ERb) which has anticancer and anti osteoporosis activity. ERb is a transcriptional transactivator that activates estrogen-dependent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 4; Page 6-8; 20pp; German.
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08-SEP-1995;
15-MAR-1996;
11-APR-1996;
                                                 A cfNA clone (162842) codes for a powel rat oestrouch receptor (W13728), designated EM hota. A set of detendred EM hota. In a content of sequences of the 10A binding domain and liquid binding domain of postor receptors were used to amplity rat prostate cDNA. The FCE prof. Was used to serie a rat prostate cDNA library to obtain the EA hota cDNA. This was then used to obtain human EM-hota cDNA (see also 102044) from a human tests cDNA library. Bat, human and mouse EM hota (W14723-25) can be used to isolate neglecture for used in the treatment of cardiovascular diseases, central provide system diseases, estemportusis, prostate of evailable character or bening prostate by perplasa and to test excitonmental coemicals for
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treating e.g. mancers, CNS diseases, osteoperesis of naturalisascular
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DT 17-JUN-1999 (first entry)
xX
DA encoding an estrogen receptor-beta.
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Hest Local Similarity 81.8%,
Matches 1389; Conservative (
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/product= "complete oestrogen receptor beta"
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mER beta-4, and probably plays a significant role in mER beta-3 councilon. The mER beta-3 clone was twice isolated using 2 separate procedures; RI-PR of mRNA; and amplification from a mouse embryosist stam cell governo DNA library 2 Alternatively.
                                                                                                                                                                                                                                                                        The present sequence is the coding region of the murine complete coestrogen receptor beta (Ek beta-c) celone mER beta-3, which curvales a 157 amino acid protein (see W98-128). The gene contains rexues, including the newly described exon 58, which is not found in Ek beta i. Exon 58 is located in the ligand binding domain of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Haman Gestroden receptor betails in useful in treating and monitoring
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08-SEP-1995;
15-MAR-1996;
11-APF 1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A cDNA clone (T62844) codes for a novel mouse destrogen receptor-
related nuclear receptor (W13725), designated EP-beta - Rat, human
and mouse ER-beta (W14725-25) can be used to isolate molecules for
use in the treatment of cardiovascular diseases, central nervous
system diseases, osteoporosis, prostate or ovarian cancer or benign
prostatic hyperplasia and to test environmental chemicals for
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environment; pollutant;
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SOFTWARE: Estentia Release #1.0, Version #1.2' (FP) CURRENT APPLICATION DATA: AFFILICATION TOWNER. USS/Sa/ent.to.A FILING DATE:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: PRIZEPRAZERRA

APPLICATION NUMBER: GB 9518272.1 FILING DATE: 08-SEP-1995

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FILING DATE:

## SUMMARIES

			ALTONMENTS SULL 1 -08-846-620A-4 Sequence 4, Application US/ORBAGG 20A Patent No. 5958716 GENERAL INFORMATION: APPLICANT: TILLE OF INVENTION: Orphan receptor NUMBER OF SECTENNES: 19 TOPLICA FEACARS! 1698.	SULU 1  -08-836-620A-4  Sequence 4, Application US Patent No. 5958716  CHNUEAL INFORMATION: APPLICANT: IIILE OF INVENTION: OF NUMBER OF SECTENCES: 1	RESULT 1  US-08-8-6-620A-4  Requestee 4, Appleatent NO. 595  CREMERAL INFORMATION THE CAPTION OF THE NUMBER OF THE NUMBER OF THE PROPERTY OF T	RESULI US-08- Sequ Pate GEN P
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; ORGANISM: Homo sapiens US-08-836-620A-4

ORIGINAL SOURCE:

ToPoLoGY:

linear

TYPE: nucleic acid STRANDEDNESS: double

FILING DATE: 08-MAY-1996 INTORNALIDATES SECTE DO: 4: SECURING CHARACTERISTICS: LENGTH: 1469 base pairs

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 0

GB 9669576.5

FILING DATE:

11-APR-1996

GB 966.7532.0

PRIOR APPLICATION DATA:
APPLICATION NUMBER: GH 9/
FILING DATE: 15-MAK-159/
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OPERATING SYSTEM: PC-DOS/MS DOS
SUFTWARE: Faterillo E-1
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4-988-836-6
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                                                                              ORIGINAL SOURCE:
                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
LENGTH: 1458 base pairs
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APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWAKE: Patentin Release #1.9, Versich #1.25 (EP) CURRENT APPLICATION DATA:
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ORGANISM: Mus musculus
836-620A-6
                                                                                                           TYPE: nucleic acid
STRANDEDNESS: double
ToPOLOGY: linear
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COMPUTER: 15M PC COMPUTED:
OPERATING SYSTEM: PC-DOS/MS-IDOS
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Pred. No. 5.1c-291;
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Patent No. 5464758
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                                                                 INFORMATION FOR SEQ ID NO:
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                                                                                                                                                                                                     CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Gossen, Manfred APPLICANT: Bujard, Hermann
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                               SEQUENCE CHARACTERISTICS:
LENGTH: 4963 base pair
                                                                                                                                     TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                         COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                      REGISTRATION NUMBER: 32
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                              CITY: Washington
STATE: District
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                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY:
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(202)371-2540
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                                                                                                                                                                                                                                                                                                                                                             Query Match
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TELEFAX: (617) 227-5941
INFORMATION FOR SEQ 11, No. 9:
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APPLICANT:
APPLICANT:
                                                                                                                       MEDIUM TYPE: Floppy disk
COMPOTER: 15M PC compatible
PEFACTUR SYSTEM: 15 10 9/MS-
SOFTWARE: ASCII text
CURRENI APPLICATION DATA:
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ORIGINAL SOURCE:
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TELECOMMUNICATION INFORMALION:
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STRANDEDNESS: double
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches 659,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 23.2%, Secret 390.8, LP 2
Best Local Similarity 62.4%; Pred. No. 3.7e-97;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NEORMATION FOR SEQ ID NO: 9:
                                                                                                       APPLICATION NUMBER: 08/076,327 FILING DATE: 14-JUN-1993 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Salfeld, Jochen APPLICANT: Voss, Jeffrey FITTLE OF INVENTION: Animal
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763 tgtgg-----gtaccgrcttgtgcggagacagagaagtgccgacgagcagctg 810
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REGISTRATION NUMBER: 31,503
REFERENCE/DOCKET NUMBER: BBI-013CP2
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INFORMATION FOR SEU ID NO: 9:
1363 GCTCTAABAAGAACAGCCIGOCCIGCCCTGACGGCCGACAGAGGCICATEGCCIG 1422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   523 | 34 444 feet Cachten 4-45 feet 41 (41 - 141 feet) and at the 4-45 feet and 45 feet and 45 feet feet 45 feet 110 feet) and 45 feet 45 feet 110 feet 111 feet 111 feet 111 feet 115 
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TITLE OF INVENTION: Useful in the Generation of Packaging Cell Lines for
HITLE OF INVENTION: Escudotyped Retroviral Vectors
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                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
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SOFTWARE:
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Friedman, Theodore
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Best Local Similarity 63.8%; Pred. No. 1.3e-68;
Matches 467; Conservative 0, Mismatches 239; Indels 6,
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LENGTH: 1956 base pairs
TYPE: nucleic acid
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                                       1634 IGATIGGCCAAGGCCTGACCCTGCAGCAGCAGCAGCAGCGGCTGGCCCAGCTCCTCC 1693
                                                                      1412 tgattgeeaagageggeateteeteenageageaaleeatgegeetggetaaeeteetga 1471
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                                                                                                               1574 TGGAAGAGAAGGACCATATCCACCGAGTCCTGGACAAGATCACAGACACTTTGATCCACC 1633
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BEECOMMINICARIO - 65
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OH 564-264-2
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INFORMATION FOR SEQ ID NOT
SECREMONE CHARACTERISTICS:
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SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/CO/CEC4 CC1
FILING DATE:
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FILING DATE: 28-JUN 1994
PRIOR APPLICATION DATA:
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COMPUTER: IBM Compatible
OPERATION SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
THE ZNG ZNAO 508

APPLICATION NUMBER:

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MOLECULE TYPE: CDNA
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AFFORMEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                       878 TETTTTGGTGGCTGAACCGGAGAAGATCTATGCCATGCCTGACCTTACTGTGCCCGGACAGT 937
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STRANDEDNESS: single
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16-FTB 1998
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Patent No. 5
Best Local Similarity
Matches 128; Conserv
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TELEPHONE: (202)371-2600
TELEPAX (202)371-2540
TELEX: 248636 SSK
INFORMATION FOR SEQ 1D NO: 15:
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COMMUTER: IBM PC compatible
OPEPAFIN: SYSTEM: PATENTS/MS-LOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Gossen, APPLICANT: Bujard,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1235 AAGGTGGAAAAAGAAGATTTGTTGAGAAGGGTAAAGGTATGATTGATTAATFG 1287
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NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Bujard, TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1204 gaaggaattetggaaatetttgaratgeteeriggeadetaetteaaggtttegagadtta 1263
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CORPESPONDENCE ADDRESS:
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CITY: Washington
                                                                                                                                                                                                                                                                                                                                                      TYPE: nucleic acid
STRANDEDNESS: both
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: FILING DATE: 14-JU
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PEGISTRATION NUMBER: 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STATE:
                                                                                                                                                                                                                                                                                                                 TOPOLOGY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH. 6244 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15, Application US/08076726
5464758
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                United States of America
          Conservative
                                                                                                                                                                                                                                                                                                                 both
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             UMBER: US/08/076,726
14-JUN-1993
                                              5.3%; Score 89; DB 1; Length 6244; 66.3%, Pred. No. 1.1e 14;
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Tight Control of Gono Expression in
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Host Local Similarity 55.3%; Score 89; DB 1; Length 6244;
Matches 128; Conservative G; Mismatches 65; Indels O; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: GIGLIO A. DeCONTI Jr.
RECISTRATION NUMBER: G150
REFERENCE/GOCKET NUMBER: HST-
THELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-5941
INFORMATION FOR SEQ ID NO: 8:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 8, Application 05/08268452
Patent No. 8650298
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                                                                                                                                                   Tille of invention: light control of dene Expression in Eucaryotic lills of invention: cells by lettacycline-responsive Promoters number of Segürnorgs: 10
2485 G-ALIGITICATAAAATCCGCAGAAAAACTGCCCGGCGTGTCGCCTTAGAAAAGTGCTGTC 2544
                                                                        24.25 TELLETTEAAAAGGGCAATGGAAGGGCAAGGAAGCATTTATGTGCTGGAAGAATGACT 2484
                                                                                                                                                                                                                                                                                                                                                                 SIRAIN: TOWNE (hCMV)
                                                                                                                                                                                                                                                                                                                                                                                                                           MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
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APPLICATION NUMBER: 08/07
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MEDIUM TYPE: Floppy disk
computer: IAM PC compatible
repeating System: PC-Das/Ms-to/s
Software: ASCII text
Software: ASCII text
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TYPE: nucleic acid
STRANDEDNESS: double
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US-08-4H1-970-8
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; Patent No. 5859310
                                                                                                                                                      Query Match 5.3%; Searce 89; 1842; Leg Hest Local Similarity 66.8%; Pred. No. 1.1e-14; Matches 128; Conservative 0; Mismatches 65;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE/COCKET NUMBER: 41,500
REFERENCE/COCKET NUMBER: 6H1 01 CF2
IELECOMMUNICATION INSORMALI N:
TELEPHONE: (617) 227-7400
IELEPAX: (617) 227-594
INFORMATION FOR SEQ ID NO. H:
SEQUENCE CHARATERISIOS:
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APPLICANT: GOSSON
APPLICANT: B. jard
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COMPUTER: LEG.
COPERATING SYSTEM: POST
                                                                           2365 TCIGTGGGGAIGAAGCATCAGGCIGTCATTATGGCGTCTCACCTGTGGGGAGCTGTAACA
                                                                                                                                                                                                                                                                                               STRAIN: Towne (hdMV)
IMMEDIATE SOURTE:
                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE:
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ETLING DATE: 14-JUN-1994
ATTOKNEY/AGENI INFORMATION:
NAME: Giulio A. DeConti,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION: 800
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    QUERENT APPLICATION DATA: APPLICATION NUMBER: US
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2425 TCTTCTTTAAAAGGGCAATGGAAGGECAG ATAASTATTTATGTGTGTGGAAAAAAATGACT 2484
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DAIE: 14 JJN-1994 PRIOR APPLICATION DAIA:
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                  605 CCLTLLLIJaaaylaaycallicaaylaacalaalqallialailiiqircaartaraaalcaqi 664
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                                                                                                                545 tetgeagegattaegeategggatareaetatagagtergateurgtgaaggararaaag 6-4
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Cliy: Boston
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TYPE: nucleic acid
STRANDERNESS: double
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                                                                                                                                                                                               Length (244)
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US-08-897-719-8
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                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                       Query Match 5.3%: Score 89; DB 2; Leigth 6244; Best Local Similarity 66.3%, Pred. No. 1.1e-14;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 8:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TIPLE OF INVENTION: Tight Control of Gene Expression in Eucaryotic TIPLE OF INVENTION. Colls by Tetracycline responsive Fremoters NUMBER OF SEQUENCES: 10
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MEDIUM TYPE: Floppy disk
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APPLICANT: Voss, Jeffrey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRAIN: TOWNE (hCMV)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CLASSIFICATION:
PRIOR AFFLICATION DATA:
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                                                                                                                                MOLECULE TYPE: URIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REGISTRATION NUMBER: 31,503
REFERENCE/DOCKET NUMBER: BBI-013CP
TELECOMMUNICATION INFORMATION:
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605 ccttftttaaaaqaaqcattcaaqqacataatgattatattttqtccagctacaaatcaqt 664
                                                                                                                                                                                                  545 totigosiogiattacijosiogigstatosotatgjagtotigitogitgitgaaggatgiaagg 604
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STRANDEDNESS: double
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                                                                                                                                                                                                                                                                                               128; Conservative
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                                                                                                                                                                                                                                                                                                                              Matches 123; Conservative
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                                                                          SEQUENCE CHARACTERISTICS:
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2061 AGGCTGGCATGGT 2073
                                                                                                                                                            1941 TOTTOTTTAAGAGGGCAATGGAAGGGCAGCACCAACTACTTATGTGCCTGGAAGAAATGACT 2000
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COMPUTER: IBM PC compatible
OREPATTHY: SYSTEM: PO-108,MS-DUS
SOFTWARE: PatentIn Pelcase #1.0, Version #1.25
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2100 Pennsylvasia Avenue, N.W., Suito 800
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NVENTION: METHODS FOR DIAGNOSING AN INCREASED
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Maximum low seq length: 2009030090
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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# ALIGNMENTS

RESULT 1 AA224131/c LOCUC	AA224131	वेद १६६	mkh/A	18	11-MAR-1998
DEFINITION	zr14c02.rl Stratagene hWT neur IMAGE:648794-57, mRNA sequence	Stratagene 4 5′, mRNA	har neuron sequence.	(#947234) Homo	<pre>zr14c02.r1 Stratagene hWT menton (#9?23%) Homo sapiens cDNA clone IMAGE:648794 5%, mRNA sequence.</pre>
ACCESSION	AA224131				
VERSION	AA224131.1 GI:1844690	GI:1844690	J.		
KEYWORDS	EST.				
SOURCE	human.				

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.J. Moore.B. Schellenberg,K. Steptoe,M. Tan,F. Theising,B.
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washIr Lebert Project
Upoablisher Places
                 Bukaryota: Metazoa: Chordata: Craniata: Vertebrata, Euteleostomi,
Actinopterydii: Neopterydii: Teleostei: Enteleostei: Ostariophysi:
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This clone is availubee royalty-tree through LLNL: contact the
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Kindly donated by Dr. K.Jebli Kawakana. "Laton primers for
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                               Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Unpublished (2000)
Contact: John Quackenbush
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Assessment of dene expression patterns in a model of colon tumor metastasis using a 19,200 element cDNA microarray
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                                                                                                                                                                                                                                                                                      Conservative
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HS_5512_B2_D07_T7A RPCI-11 Human Male BAC Library Homo Sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               library availability, please contact Pieter de Jonq
(pieteredejong.med.buffalo.edu). Ciones may be purchased from
BACFAC Resources (http://bacpac.mcd.buffalo.edu/ordering_bac.htm)
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University of Washington
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Clones are derived from the human BAC library kPCI-11. For BAC
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McArdio Laboratory for Cancer Research
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Fax: 608 262 2024
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1400 University Ave., Madison, WI 50206, USA
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                                                                                                                                                                                                                                                                                                                     High-efficiency full-length cDNA cloning, Methods Enzymol, 303,
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                                                                                                                                                                                                                                              visit our web site (http://genome.rrc.riken.go.jp) tor
                                                    /organism-"Mus musculus"
/db_aret-"laxon:10090"
/dlone="A330094K06"
/clone_lib-"RIKEN full-length enriched, adult male spinal
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COMMENT
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Email: est@watson.wustl.edn
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
                                                                                                                                                                                                          Washington University School of Medicine
4444 Porest Park Parkway, No. 850i. St. Louis, Mo. 63108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hillier.L., Allen.M., Howles.L., Dubuque.E., Geisel,G., Jost,S.,
Kucaba,T., Lacy,M., Le.N., Lennon,G., Marra,M., Martin,J., Moore,B.,
Schellenberg,K., Steppoe.M., Fan.F., Theising.B., White,Y., Wylie
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WashU-Merck EST Project 1997
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1. (bases 1 to 462)
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Project of Genome Exploration Research Group in Riken
Genomic Sciences Conter and Genome Science Laboratory in
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Contact: Robert Strausberg, Pa.D.
Lel: (301) 496-1550
                                 Bonaldo, Ph.D.
                                                                                                    Email: Robert_Strausberg #nih.dov
Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael
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National Object Unitaries Object Domine Apating Po
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Mammalia; Entheria; Primates; Catarrhini; Hominidae; Homo.
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                                                                                        k. Emmert-Buck, M.D.,
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                                                          chNA Library Preparation: M. Bento Soares, Ph.D.,
CDNA Library Arrayed by: Greq Lennon, Ph.D.
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prequant uterus"
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                                                                                            Email: modert_strausberg him.gov
Tissue Procurement: Christophet A. Moskalak, M.D., Ph.D., Michael
                                                                                                                                                                                                                                                                                                                               Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
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                                                                       R. Emmert-Buck, M.D., Ph.D.
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DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI COAP clone distribution information can be
found through the L.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.qov/chrp/image/fmage html
Insert Leaville 816 - std Alexe E 00
Insert Leaville 816 - std Alexe E 00
                                                                                                                                                                                                                                                                                                                                            Wambutt,R., Heubner,D., Mewes,H.W., Gassenhuber,J. and Wiemann,S
EST (Wambutt, et al.)
Unpublished (1999)
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
l (bases 1 to 549)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCL_CGAP_GC4 was prepared, and as circles were made in vitro. Pollowing HAP purification, this DNA was used as tracer in a subtraction hybridication reaction. The driver
/organism="Homo sapiens"
/db_xref:"taxon:9606"
                                                                                                                                         Location/Qualitiers
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/lab_host-"pH108"
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JOHLBERT ZEMJADMY HAID
Chinese National Human Genome Center at Shanghai
351 Suo Shoujing Read, Ehangjiang Hi Tech Park, Pudong, Shanghai
201203, P. R. China
Tel: 86 21 50801919 (ex.45)
Pax: 86-21-50801922
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Homo sapiens cDNA clone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AV647429 GLC Bomo sapiens cDNA clone GLCAYCO1 37, mRNA sequence AV647429
AV647429.1 GI:9868443
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Mammalia; Euthoria; Primates; Catarrhini; Hominidae; Homo.
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                                                                                                                                                                                                                   This clone is available at CHGC in Shanghai
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 129
                                                                                                                                                                                                                                       hanzg@chqc.sh.cn
 a
                                                  /tissue_type "eorresponding non-cancerous liver tissue"
/dev_stage="Adult"
/lab_host="Solk"
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/clone_lib="86 (synonym: hutel)"
/tissue_lype="uterus"
/dev_stage="adult"
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/hote-"Vector psp
                                                                                                        /clone="GLCAYC01"
/clone_lib="GLC"
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                                /note-"Vector: pBluescript sk(·); Site_1: Ecokl; Site_2:
                                                                                                                                              /db_xref-"taxon:9606"
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                                                                                                                                                                                                   Covery Match 5.1%: Score 85.4; DB 38; Length 399; Hest Local Stmilling 64.5%: Fred. No. 2.4e-13; Matches 129: Conservative 0; Mismatches 71; Indels 0
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Subtact: Zequand Han
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1 (bases 1 to 399)
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Zererla, Xu,S., Gu,W., Lu,Y., Jia,J., Fu,G., Ren,S., Zhong,M., Lu
Ji., Yang,Y., Gu,Y., Chen,Z. and Han,Z.
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Tel: 80-21-50801519(ex.45)
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NCL CGAF http://www.schi.nlm.nlh.gov/ncloqap
National Cacer Institute, Cancer Genome Anatomy Project (CGAP),
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DNA sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
round through the L.M.A.G.E. Consortium/LLNL at:
www-bio.llni.qev/bbrp/imaqe/imaqe.html
Lusert Length: 1206 Std Error: 0.00
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/note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not 1; Site_2: Eco RI; a modified polylinker; Site_1: Not 1; Site_2: Eco RI; plasmid DNA from the normalized library NCI_CGAP_Kid3 was prepared, and ss circles were made in vitro. Following HAP prepared, and ss circles were made in vitro.
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                                                                      INFORMATION FOR SEC ID NO: 13:
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                                                                                                                                                                       FILING DATE: 15-MAR-PRIOR APPLICATION DATA:
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SEQUENCE CHARACTERISTICS:
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COMPUTER:
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INFORMATION FOR SEQ ID NO. 11
SEQUENCE CHARACTERISTICS:
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APPLICATION NUMBER: OB 98-97532.0
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(EPO) OTHERENT APPLICATION DAIA:
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15. statel state 11.1. | 11.1. | 11.5. | 11.1. | 11.1. | 11.1. | 11.1. | 11.1. | 11.1. | 11.1. | 11.1. | 11.1. | 11.1. | 11.1. | 11.1. | 14.4. | 446. | 11.1. | 14.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 15.5. | 
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FILING DATE: 17-DEC-1987
FRICK APPLICATION DATA:
FRICK DECEMBER:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ;Patent No. 5223606
                                                                                                                            Patent No. 5958710
GENERAL INFORMATION:
                                                                                                                                                             Sequence 7, Application US/08836620A Patent No. 5958710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 41.4%; Score 1160; DR 5; Length 410; Best Local Similarity 59.0%; Pred. No. 8.5e-116; Matches 219; Conservation 70; Misantones 56; Lubels 2
                             COMPUTER READABLE FORM:
                                                      HITLE OF INVENTION: Orphan receptor NUMBER OF SEQUENCES: 19
                                                                                                         APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                       4:0 LNAVTDALVWVIAKSGISSQQQSMKIANGLMLLSHVRHASNKGMEHLLNMKCKNVVVVVVD 489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 174 NWAKRVPGFVDLTLHDQVHLLECAWLETLMIGLVWRSMEHPVKLLFAFNLLLDRNQGKCV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       116 RSKKNSTALSTANDAVSALITAEP--ILVSEYDDTRPESEASMACHTNIADPELVEMI 173
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                234 ECMVETEDMILATSSRFRMMNLQGERFVCLKSTILLINSGVYTELSSTLKSLEEKDHTHRV 293
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            371 EGILELEDMILATTSREKEELKIQHKEYICVKAMILLINSSMYPLVTAT-GDADSSKKLAHI, 429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               209 CYTEVGMVKCGSERERCCYRTVFRQESADEQLHCACKAKREGGHAPEVE
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                                                                                                                                                                                                                                                                                                             354 LILLEMILDARKI, 364
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Floppy disk
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                                                                                                                                                                                                                                                                                                                                                      Sequence 1, Application US/08564264 Patent No. 6040430
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                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                 APPLICANT: STEWART, HITTLE OF INVENTION: RITTLE OF INVENTION: RITTLE OF INVENTION: R
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                COMPUTER REALDABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: TBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                     NUMBER OF SEQUENCES:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   425 KLABLENAVTDALVWVIAKSCISECÇÇEMBERRE PETERIVERRERE MEDITIFIELLE LIMBERENV 484
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181 VPVYDLLLEMLNAHTLRGYESSISSSESSSESSKNEESSONLOSO 226
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                                                                                                                                      STATE:
                                                                                                                                                      CITY: Washington
  SOFTWARE:
                                                                                                                 COUNTRY:
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FILING DATE: 15-MAR-1996
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CHEPATING SYSTEM: Pt bes/MC DOS
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5 Fifteenth Street N.W. Suite 330
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91.2%; Pred. No. 5.8e-105;
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RECOMBINATION OF SITE-SPECIFIC

RECEPTOR FUSION PROTEINS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1ELEPHONE: (202)638-5005
1ELEFAX: (202)638-4810
INFORMATION FOR SEQ ID NO: 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 93
ETLING DATE: 28 JUN 1593
ATTORNEY/AGENT INESKNATISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUEN'E CHARACTERISTICS:
LENGTH: 773 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELECOMMUNICATION INFORMATION.
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                                                                                                                                                                                                                                                                                                                                                          4 4 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            223 ROOTKOVKKQKSAOFQI HOAGKAKKSOOHAGGEVETTTTTTTTTTTTTTTTTELLILBALSEE 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TIM PVNKETIKKKVSGNKGASFV------IGPGSKKDAHFCAVCS-- DYASGYHYC 162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             278 MICHSTNKALKKNAPYSTFAIKNO----PKSHIGKH----LMTSF----LSMKGLTELTN 325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       355 PISKEMIALKUFIN----PIFEWUHIEQLKGSAEGSIRYPAWNGIISQEVLUYLSSY--- 418
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                                                                                    343 SREED KIJEKEYIA VKAMII INSSMIPI VIAT-QUADSSEKIAHI INAVIDALVWVIAE 443
                                                                                                                                                                        551 HIQVHITECAMIETIMICI VWESMEHPVELLEAPNILLDPNQGECVEGMVETEIMILATS
                                                                                                                                                                                                                                                                 325 FONDARTIESTWAFVIMMTIMMESTORINGKLIFAROLVILIPORGKOVEGILEIEUMLLATI 384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    65 LEG------GPGKQITSPNVIWPIPGHLSPLVVHRQLSHLYAEPQKSPWGEARSLEHTL 117
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FILING DATE: 28-JUN-1994
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SPERMANI (MEETEVOLKSTILLING IVVITE) SOOTIESTEEROOTHEVIJOF TILJIT (HIJMAK 570
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APPLICANT: Friedman, Theodore
APPLICANT: Clen, Shin-Tai
TITLE OF INVENTION: Induction Expression System
TITLE OF INVENTION: Useful in the Generation of Fackading Cell Lines
TITLE OF INVENTION: Pseudotyped Retrovital Vectors
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FILING DATE: 07-AUG-
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
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OPERATING SYSTEM: DOS
SOFTWARE: FastSEO for Windows Version 2.0
CUERENT APPLICATION DATA:
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MEDIUM TYPF: Diskett
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4 P. WVIAEGII SKALAKEMELARILIMILISHVEHASIRI IMBELLIMBE TERVIVEVEYI I ILIEMINAH 4 PE
                                                                                  ASE A TOLLIAN LINE LARGE WOLL OF INTERNATIONAL CONTRACTION FOR THE LARGE WALLE OF A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 651 amino acids
TYPE: amino acid
STRANDEDNESS: single
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TELEPAX: 650-327-92-1
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REGISTRATION NUMBER: 36,533
REFERENCE, OWNEET NUMBER: 65
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STREET: 285 Hamilton Ave, Smite 200
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59.1%; Prod. No. 90073;
matter 57; Mishbatched 68; 16.5 %
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                                                                              RESULT 14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 23.88; Scero 668.5; DR 2; Longth 243; Best Local Similarity 54.98; Pred. No. 1.8e+63; Matches 124; Conservative 52; Mismatches 49; Indels 1
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ORIGINAL SOURCE:
ORGANISM: Mis
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LENGTH: 243 amino acids
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CURRENT APPLICATION DATA: APPLICATION NUMBER: US
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                                                                                                                                                                       TITLE OF INVENTION: Orphan receptor NUMBER OF SEQUENCES: 19
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                                         COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Vers.on #1.25 (EPO)
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                                                                                                                      MEDIUM TYPE.
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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APPLITATION NUMBER: GB 9518272.1

FILING DATE:

APPLITATION NUMBER: GB 9518272.1

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APPLITATION NUMBER: GB 960550.4

FILING DATE: 15 MAR 1996

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FILING DATE: 17 MAR 1996

FILING DATE: 10 APPLITATION DATA:

APPLITATION NUMBER: GB 960550.5

FILING DATE: 08 MAY 1996

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INFORMATION FOR SEQUENCE: 10:

SEQUENCE: CHARACTERISION:

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A.Title: ER-beta: identification and characterization of a novel human estrogen receptor A; Reterence number: $71400; MUID:96354875
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R.Mareyaka, K., Endoh, H., Sasaki Iwacka, H., Kanon, H., Shimaya, B., Hashimoto, S., Biochum. Bioghys. Res. Commun. 246, 142-147, 1998
A;Title: A novel isoform of rat estrogen receptor beta with 18 amino acid insertion
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C,Species, Rattor Assessing
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A; Residues: 1-503 <MAR>
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17-Jun-1998 #sequence_revision 10-Jul-1998 #text_change 17-Mar-1999
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                                                                                                                                                                                                                                                                                    SQQQSMRLANLLMLLSHVRHASNKGMEHLLINMKGKNVVPVTTTTLLLIMINAHVLKGCKSSI 507
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#### RESULT 4

estrogen receptor chicken

C:Date: 06-Mar-1992 #sequence\_revision 14 Jul 1994 #text\_chasge 22-Jus-1999 C:Accession: A40914; 807192 C; Species: Gallus gallus (chicken)

R;Maxwell, B.L.; McDonneil, D.P.; Connecly, O.M.; Schalz, I.Z.; Greene, G.L.; O'Mallo Mol. Photocrinol. 1, 25-45, 1987 A;Title: Structural organization and regulation of the chicken estrogen receptor. A;Reference number: A40914; MUID:88318621 A; Status: not compared with conceptual translation A; Accession: A40914

A;Molecule type: mRNA A;Residues: 1 589 <MAX> R;Krust, A.; Green, S.; Argos, P.; Kumar, V.; Walter, P.; Bornert, J.M.; Chambon,

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QRHUE:
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E:177-265/Jemmain orba transforming protein kemplogy *ERBA>
E:172-265/Jewichon zinc finder CYCY motif
E:21-c255/Jewichon zinc finder CYCY motif
E:250-265/Jewichon profest Leviti-n signal
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C:Comment: The steroid hormones and their receptors are involved in the regulation of cu
complex appears to recognize discrete DNA sequences upstream of transcriptional start sit
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A:Retorence number: 807192; MUD:86247578
A:Arcession: So/7192
A:Status: preliminary
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nucleus; F;l 173/160main: umino-terminal 'N
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A:Residues: 1-256.787,258-589 .KRO
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C; Superfamily: estrogen receptor: erbA transforming protein homology
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A:Experimental source: clone 24: throast earner
A:Note: separate variable of true KCH Li &L ZEREN:[0.657]
A:Note: separate variable of true KCH Li &L Li & ZEREN:[0.657]
C:Comment: The steroid hormones and their recepturs are involved in the regulations of C:Comment: In the absence of liquid, steroid hormone recepturs are thought to be work complex appears to recognize discrete LNA sequences upstream of transcriptional Start
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DNA Seq. 2, 347-458, 1992
A:Title: Sequence analysis of the fit flanking region of the ballous estimate are part of A:Reference number: $27140; MUID:98075-498
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K.Green, S., Walter, P., Kumar, V., Mrusti A.: Formert, J.M.: Ardess F.:
Nature 320, 134-139, 1986
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A:Note: Sequence has been revised after extraction from N'bi backbone A:Note: the complete sequence of beither the nucleotide nor the protein is shown A:Note: sequence extracted from N'BI backbone (N'BLNg)objec)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Fittle: Characterization of estrogen receptor variant meNAs from human breast A:Reference number: A41925; MUID:92293154
A:Acression: A41925
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A:Pesidies: 216 254,467-399,767,401-434 - PEE -
A:Cross-reterences: EMBLIX7.067; NH:04594865; PHINETAA617,801; PHIE:
A:Note: the authors translated the codon 5501 for residue 400 as Val
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A:Reference number: 824030; MUID:941542E5
A:Accession: 834040
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RrPtetter, U.: Fecurotta, E.: Castagnetta, L.: Vidali, G.
Cancer Res. 54, 741-743, 1993
A;Residues: 1-214, ELPILO* -D70 -
A;Cross-references: SK:M65257, Mibbalbazib; PUDN:AAA5646..1; Pibbalbazib;
A,Experimental source; clone 4; breast cancer
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                                                                       A:Cross references: GDB:119120: DMIM:1+3430
                                                                                                             A; Gene: GDB:ESR1; ESR
                                                                                                                                                                                                                                                                                                                                                              A; Cross-references: GB:M69296
                                                                                                                                                                                                                                                                                                                                                                                                A: Molecule type: mkNA
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,Residues: 1 595 CR2
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A:Experimental source: uterns
k:Thole, H.H.: Maschler, L.:
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A:Molecule type: mRNA
A:Residues: 1-595 <BOK>
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F:Rub-SyS/homodine statoid binding estatus predicted <emps
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Eur. J. Biochem. 231, 510-516,
                                                                                                                                                                A:Cross reterences: EMBL:237167; NID:g587554,
                                                                                                                                                                                                                                                                                                                                                                                                  A; Accession: 147140
                                                                                                                                                                                                                                                                                                                                                                                                                                                        A: Reference number: 147140; MUID: 95080454
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4 (5. ALVWY LAKSALISSOCOSMICHALMILEMICHANKKOKNYVPRYDELLEMI, 495
4 (6. ALVWY LAKSALITACOSMICHALMILEMILEMIASKOMEHLANKKOKNYVPRYDELLEMI, 495
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6.1 NVINLEGGEORG
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                                               1.: Jungblut, P.W
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A: Title: Surface mapping of the ligand filled e-terminal half of the poteine estradio
A: Reference number: 866250; MUID:95461877
A. Reference number: 966250
A. Reference protein
A: Residues: 297 307;310 314;320 324;329 332;437 405,417 420,466 473 THO-
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C:Supporfamily: estrogen receptor: erbA transforming protein bomology
C:Reywords: DNA binding: mocleus: plosptoprotein: steroid bormone receptor: transcrip
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A:Accession: $32402
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E;221-245/Region: zinc finger CCCC motif
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F:1-120/Domain: DNA pinding #status predicted -DNA>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0 ouery Match 43.5%; Score 1219.5; DB 2_7 Length 595; Best Local Similarity 46.0%; Fred. Ro. 1.4e 87; Matches 268; Conservative 89; Mismatches 126; Inde1s 99;
530 CKNVVPLYDLLLEMLDAHRLH APTNLCC
                                                          481 CKNVVPVYDLLLEMLNAHVLRGCKSSTTGSECSPAEDSKSKE 522
                                                                                                                                                                                                                  470 EEKDHTHEVLDKTTOTLTHLMAKACI U QQQHFRTAQITTI TI SHFRHMSNKGMEHTIYNMK 529
                                                                                                                                                                                                                                                                                                                                  421 CSSPKLAHILINAVTDALVWVIAKSTISSQQQSMFLANLIMITSHVEBASINSGMEHILIMME 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                 410 LUKRÇOKOVEGMVETEMILLATSSELKMANDOJILI VOLKSTILLINSOVYTELSSELKSI. 469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 238 QACPIPKCYEVGMMKGGIPKIPHOGIPMLKHKPQPIDO --- GEGENEAVPPOOMPSANIW 292
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        293 PSPLLIKHTKKNSPVL--SI/TADQMISALLEAEPP-11YSEYDPTRPLSEASMMGLLTNL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             202 QACKERKOYEVSMYKOOSKREROOYKLYRKQRAADEQLEE'ACKAK------KSOO--
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LVVHRQLSHLYAEPQKSPWC--EARSLEHTLPVNRETLKRKVSGNRCASPVTGPG----- 141
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PPPEDMSQSQ 567
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E:1-184/Domain: amino-terminal NHZo
E:184-275/Semain: DNA binding #status predicted DNAs
E:187-460/Memain: DNA binding #status predicted DNAs
E:187-240/Memain: Fine finace DNEs motif
E:224-245/Median: Fine finace DNEs motif
E:245-245/Median: macloar location stand
E:245-245/Memain: Steroid binding #status predicted STBs
E:185-184/Memain: Steroid binding #status predicted
E:240-184/Memain: Steroid binding site: Time (Cys) #status predicted
E:240-241/241/Minding site: Disc (Sys) #status predicted
E:240-241/241/Minding site: Disc (Sys) #status predicted
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A:Molecule type: mkNA
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A:Mross relevences: GR:M38651: NID:g194179; FIDN:AAA37580.1: PID:g193180
Promount: The storoid hormones and their peopptors are involved in the regulation of en
Promount: In the absence of liquid, storoid hormone receptors are thought to be weakly
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Tesupertamoly: estrogen receptor: erbA transforming protein homology
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Cobate: 06:Mar-1992 #sequence_revision 14 Jul-1994 #text_change 22-Jun-1999
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of, Endocrinol. 1, 748-744, 1987
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                                                                                                           496 NAHVIRDOFSSIDISEDSPASDSFSKEDSJAPJS EQG
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45.8%; Pred. No.
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June 1990
A:Reference number: $16731
A.Accession, $16731
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E:188-461/Domain: ethA transforming prefern homology (ERBA)
E:188-231/Region: Zine finger CCCC media
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Romagai, A.M.A.
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O:Date: 40:Sep-1991 #sequence_revision 14 Jul 1994 #jext_cluster: 3.As exsion. 807979; $16731
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A,kesidues: 1-487,'i',
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A; Residues: 1-600 - Kolv
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                                                                                                                                                                                  172 SANCERONE MICHAEL BY CAVERY ACCURATE FOR SOME SANCE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE
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ds Ros. 15, 2499-2513, 198
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F:180,183,197,290,56inding site: Linc (Cys) #Status predicted
F:216,222,243,235,78inding site: Linc (Cys) #Status predicted
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E:173.26a.74amain: DNA binding #status prodicted curs.
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F:214-237ZRegion: zinc linger cocc motif
F:251-266ZRegion: supplear location signal
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A:Reterence number: A40907; MUID:90331927
A:Accession: A40907
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C; Accession: A40907
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C:Species: Achopus Taevis (African clawed froq)
C:Date: 28-Feb-1992 #sequence_revision 14-Jul-1994 #text_change 15-Jun-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A:Cross-reterences: GB:1.20735
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A: Residues: 1-5%b .wei>
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857 APOLVUDEDEGKOVESTEELETEMIJATTSREKELKIJGHRENTIJVAAMILJUNSSMEELVEA 416
                                                                                                                                    337 ELTNIADREIVHMINWAKKVPGEVDITLHDQVHLLECAWLEILMVGLIWRSVEHPGKISF 396
                                                                                                                                                                                                                                                                                                                                                                                          251 HA------PRVKELLLD---ALSPEQLVLTLLEAEPPHVLISRPSA-PFTEASMMM 296
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   [19] CLIDKNRRKSCUACHLERGYEVGMVKCGSRRERGGYRLVRRQRSADEQLHCAGKAKESGG 250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     162 SANGAGIYEMESIKETKYCAVCSDYASGYHYGVWSCEGCKAFFKRSIQGHNDYMCPATNQ 221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         103 VVFLAKLIQI SPETHURGQQVPYYLESEQGTFAVREAAFFTF-YKSSSDNKKQSGREKMS 161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       136 PVTGPG--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 y Match 43.2%; score 1214,
Local Similarity 48.6%, Fred. No. 3.
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                                                                                                                                                                                                                      SLIKLADKELVHMISWAKKIPGFVELSLFDQVKLLESCWMEVLMMGLMWRSIDHPGKLIF 356
                                                                                                                                                                                                                                                                                                        PSEIRTASIWVNPSVKSMKLSPVLSLTAFQLISALMEAEAPIVYSEHDSTKPLSEASMMT 336
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTICERPHESCQACKLARCYLVGMMKGGIFKORFONFIGKHKRQKEEQ---- EQKMDVD 276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NVLWPTPGHLSELVVHR-QLSHLYAEPQKSPWCEARSLEHTLPVNEETLKRKVSGNRCAS 135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 255;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ---SKRDAHFCAVCSDYASGYHYGVWSCEGCKAFFKRSIQGHNDYICPATNQ 190
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C:Superfamily: estrogen receptor: orba transforming protein homology C:Keywords: FNA binding; nucleus: storoid hormone receptor: transcription regulation F:184 460/Domain. with transforming protein homology (ERB)
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submitted to the PMRL Data Elbrary, March 1994
A;Description: Cloning of medaka estrogen receptor cDNA.
A;Reference number: Z17013
A;Accession: T10423
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C:Date: 20_Sep-1999_#sequence_revision_29-Sep_1999_#text_change_20-Jun-2000
C:Accession: T10423
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A:Residues: 1-620 /OKA>
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465 FCTGTMEPLHNSAAVQSMLDTITDALIHYISQSGYLAQBQARFQAQLLLLLSHIRBMSNK 524
                                                                                                                                                                                                                                                                                413 LVTATOD-ADSSRKLAHLINAVTDALVWVIAKSGISSGQGSMRLANTIMIISHVPHASNK 471
                                                                                                                                                                                                                                                                                                                                                                                                      405 KLIFAQDLILDRNEGDCVFGMTETEDMLLATASRERVLKLKPEEFVCLKAlillnsgafs 464
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     345 TMMTILTSMADKELVHMIAWAKKLPGFLOLSLHDQVLLLESSWLEVLMIGLIWRSIHCPG 404
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 118 PSSPRLSPFM--HPPSHHYLETTSTPVYKSS------HQGASREDQCGSREDTCSLGE 167
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A:Molecule type: mkNA
A:Residues: 1-545 (ke).
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Atlantic salmon (fradment)
C;Species: Salmo salar (Atlantic salmon)
C;Date: [3-Jan-1996 #sequence_revision of Mar 1996 #fext change to Aprt 1996
C:Species: Oncorhynchus mykiss (tainbow tront)
C:Date: 31-Jan-1992 #sequence_revision of dat-1962 #text_change
C:Accession: A37197: A40070
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submitted to the EMBL Data Library, July 1995
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48.8%; Pred. No. 5.46 81;
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P:Pakdel, F., Le Gar, F., Le Gott, P., Vaistaire, Mol. Cell. Endocrinol. 71, 195-204, 199

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steroid hormone receptor ERR2 procursor - human
Cispecies: Homo sapiens (man)
Cibaro: Technor-Topa #sequence_invision 1s for 1988 #text_change 20:Sep-1999
C:Accession: B29345
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NID:q213783; PIDH.AAA49552.1; PID:q213784 c/Supertamily, estucated receptor, with A transforming protein homology C.Keywords: DNA binding; nucleus; steroid homone receptor; transcription regulation; P:145-421; Termin: ArbA transforming p:145-421; Termin: ArbA transforming p:145-421; Termin: ArbA transforming p:145-421; Termin: ArbA transforming p:145-421; Termin: ArbA transforming p:145-421; Termin: ArbA transforming p:145-421; Termin: ArbA transforming p:145-421; Termin: ArbA transforming p:145-421; Termin: ArbA transforming p:145-421; Termin: ArbA transforming p:145-421; Termin: ArbA transforming p:145-421; Termin: ArbA transforming p:145-421; Termin: ArbA transforming p:145-421; Termin: ArbA transforming p:145-421; Termin: ArbA transforming p:145-421; Termin: ArbA transforming p:145-421; Termin: ArbA transforming p:145-421; Termin: ArbA transforming p:145-421; Termin: ArbA transforming p:145-421; Termin: ArbA transforming p:145-421; Termin: ArbA transforming p:145-421; Termin: ArbA transforming p:145-421; 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A:Reference number: A37197; MUD:91096824
A:Accession: A37197
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F;183-207/Region. Linc tinger
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A; Residues: 150-574 < PA2
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A:Gross-relepences (rp.W1554
E:PrEdel | F. [6-5] (r) Va
Mol. Endocrinol, 3, 44-51, 1989
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A:Molecule type: mRNA
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                                                                                                                            diquere, V.,
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Identification of a new class of steroid hormone receptors
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                                                                        91-94, 1988
                                                                                                                                          Yang, N., Soqui, P., Erans, R.M.
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48 8%; Pred No A 1ω-A0;
tire 70; Mismatches 127,
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A;Cross-references: EMBL:X89594; NID:q914855; PIDN:CAA61755.1; PID:q914856
C;Superfam:ly: unassigned erbA related pretrime erbA transforming protein
C;Keywords: steroid hormone receptor; zing finger
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A.Accession. B29345

A.Accession. B29345

A.Accession. B29345

A.Molecule type: mRNA

A:Residues: 1 433 *CICs

A:Residues: 1 433 *CICs

A;Cross-references: GB:X51417, NID:g36610, FIDN:CAA35775.1, FID:g46611; $B:Y00290

C,Superfamily: unassigned erbA-related proteins; erbA transforming protein homology

C,Keywords: DNA binding; storoid hormone receptor; transcription regulation; since in
                                                                                                                                                                                                                                                 A; Molecule type: mRNA
Λ, Residues: 1:433 <PET>
                                                                                                                                                                                                                                                                                                                                                                                              A;Accession: S58087
A;Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  R.Pettersson, K., Svensson, K., Mattsson, E., Cailsson, B., Submitted to the EMBL Data Library, July 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C:Species: Mus musculus (house mouse)
C:Species: Mus musculus (house mouse)
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33.5%, Pred. No. 9.3e 42;
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                                                                                                   protein homology
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Search completed: April 16, 2501, 06:33:59 Job time: 544 Sec

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Biol. Reprod. 60:691-697(1999).
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01-MAY-2000 (TrEMBLrol. 13, Last sequ
01-OCT-2000 (TrEMBLrol. 15, Last anno
PFAM; PF00104; hormone_rec;
PFAM; PF00105; zf-C4; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ovis aries (Sheep).
Eukaryota; Metazoa; Chordata;
                                                     INTERPRO: IPR000324; -.
INTERPRO: IPR000536; -.
INTERPRO: IPR001628; -.
INTERPRO: IPR001723; -.
                                                                                                                                                                       EMBL; AF177936; AAD55772.1; HSSP; P03372; 1HCP.
                                                                                                                                                                                                                       Submitted (AUG-1999) to the EMBL/DenBank/DDBJ databases
                                                                                                                                                                                                                                                              "Cloning and expression of estrogen receptor beta in the ovine ovary.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazóà; Chordata; Cromiata; Vertebrata; Euteleostomi;
Mammalia; Butheria; Cetarticdoctyla; Bumimantia; Pecera; Bovoidea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ESTROGEN RECEPTOR BETA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Q9TU15
                                                                                                                                                                                                                                                                                                              Cardenas H., Bigsby R.M., Pope W.F., Nophow K.P.;
                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_Tax1D=9940;
                                                                                                                                                                                                                                                                                                                                               TISSUE-OVARY;
                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A
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Pred. No. 9.5e 207
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Best Local Similarity
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091182;
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01-MAY-2000 (TERMELTE), 13, Last seq-
01-021-2000 (TERMELTE), 15, Last anno
ESTROGEN RECEPTOR BETAA.
                                                                             Mol. Cell. Endocrinol. 152:37-45(1999).
EMBE: Y18017: CAB53861.1: -.
HSSP: P03372: THCP.
                                                                                                                                                                                                  Walther N., Lioutas C., Fillmann C., Ivell R.; "Cluning of bovine estroyen receptor beta (Erbeta): Expression movel deleted isoforms in reproductive tissues.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Enkaryota; Metazoa: Chordata; Craniata; Vertebrata; Ente
Manumalia: Eutheria; Cetartiodactyla; Ruminantia; Pecora;
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                                                                                                                                                                                                                                                                                                                                SEQUENCE PROM N.A.
    INTERPRO: IPROGOS36;
INTERPRO: IPROGOS36;
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"Androgen receptor, estrough receptor alpha, and estrough receptor beta show distinct patterns of expression in forebrain sond control nuclei of European starlings."; Endocrinology 140:46:8-4443(1999).
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hes 423; Conservative
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Pred. No. 1.5e
17: Mismatches
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Best Logal
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                                                              Coturnix coturnix japonica (Japanese quail).
Eukaryota; Moturoa: Chorduta; Craniata; Vertebrata, Euteleostomi;
                                                                                 01-NOV-1998 (Tremblrel 08, Created)
01-NOV-1999 (Tremblrel 12, Last sequence up
01-MAY-2009 (Tremblrel 13, Last annotation
ESTROCEN RECEPTOR BEIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   INTERPRO;
INTERPRO;
INTEPPRO;
       MEDLINE-98430913;
               SEQUENCE OF 141-286 FROM
                                  NCBI_TaxID=93934;
                                                      Archosauria, A.es,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE
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                                                                                                                                                          J.
                                                                                                                                                                                                                          CKNVVPVYDLLLEMLNAHTLEGGERPLATHPEFGPLEQMEFGFSLFKGEFG
                                                                                                                                                                                                          CKNVVPVVDLLLEMENAHVLFSCF$SI-TGSECSFAEDSKSKEGSQNFQSQ 530
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                                                                                                                                     PRELIMINARY;
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      86 FROM N.A.
PubMed=9760113;
                                                    Newshathae: Gallifornes, Fhasianidae, Fhasianinae,
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13, Created)13, Last sequence update)15, Last annotation updat

update)

ESTROGEN RECEPTION BETTA.

Eukaryota, Metazca, Gallus gallus (Chicken)

Neognathae; Galliformes; Chordata, Craniala,

Vertebrata; Euteleostomi;

Phasianidae; Phasianinae;

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Matches
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In the quall brain.";
Submitted (SEP-1948) to the EMME / Denemb/JUNE databases.
-!- SUBCELLUIAR LOCATION: NUCLEAR (BY SIMILARITY).
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39; Mismatches
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Best Local Similarity
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                          01-MAY-2000 (ITEMHLIEL 13, Created)
01-MAY-2000 (ITEMHLIEL 13, Last sequence update)
61-07-2000 (ITEMHLIEL 15, Last annotation update)
ESIGOSEN RECEPTOR BELAZ SPLICE VARIANT.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                  Homo sapiens (Human)
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                                                                                                            PRELIMINARY.
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79.3%: Pred. No. 7.5e-162;
Mativo 38: Mismatches 52;
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Best Local Similarity
Matches 318; Conserv
 MEDIINE=96386022; PubMed-8793852
Todo T., Adachi S., Yamauchi K.;
                                                                                                                                      Anquillidae; Anquilla.
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Bukaryota: Metazoa: Chordata: Cra
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                        TISSUE=LIVER;
                                     SEQUENCE FROM N.A.
                                                               Submitted (APR-1997) to the EMBL/Campionsk/ADBL Jatahasa
                                                                                                    SEQUENCE FROM N.A.
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PRINTS: PKU0047; SIKOIDFINGEK.
PRINTS: PKU00450; VIIAMINDR.
PKOSITE; PS00031; NUCLEAK_RECEPTOR:
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                                                                                       TISSUE-LIVER;
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"Cloning and functional characteristics of bullah estroach receptor
beta isoforms":
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Adachi S.,
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Teleuster.
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Best Local S
Matches 212
                                          09W669;
01-NOV-1999 (TrEMBLrel. 12, Created)
01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
01-OCT-2000 (TrEMBLrel. 15, Last annotation update)
ESTROCEN RECEPTOR BETA.
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PRINTS: PRO0398; STRUBGEMONER
PROSITE: PRO0041; NUCLEAR_RECEPTOR; 1
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Mol. Cell. Endocrinel. 119:37-45(1996).
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INTERPRO: IPROP1723; -.
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Local Similarity 57.7%,
hos 212; Consermative 6
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Pred. No. 7.2e-127;
2. Mismathher 121.
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Q9TTE5 PRELIMINARY; PKT; Q9TTE5; 09TTE5; 01-MAY-2000 (TremBurel, 13, Created)
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Query Match 52.38, Score 1466; DH 13; Best Local Similarity 56.08; Pred. No. 1.30-119; Matches 290, Conservative 75; Mismatches 127,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PEINTS, PRO0047, STROIDFINGER.
TENINTS, PRO0050, VITAMINDR,
FEOSITE, PRO005031, NUCLEAR_RECEITES; 1.
Receptor, Transcription regulation, DNA binding, Nuclear Zinc-finger.
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INTERPRO: IPR000536; -.
INTERPRO: IPR001628; -.
PFAM; PF00104; hormone_rec; 1.
PFAM; PF00105; zf·C4; 1.
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FMPI: AF061269; AAD26921.1; -. HSSP; P03372; THCP.
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Fathak S., Callard G.V.: "Molecular cloning of an estrogen redeptor beta subtype from goldlish liver.":
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota, Metazoa, Chérdata, Craniata, Vertebrata, Euteleostomi,
Aethnoptergii, Reophergii, Peleostei, Esteleostei, Estariophysi;
Cyprinitomes, Cyprinidae, Cyprininae, Carassius.
NCBL_TaxID=7957;
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Brist Local
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                                                                                                      Sparas annata (Gilthead sea bream).
Enkaryata: Metadoa: elecidata: Cranlata: Vertebrata; Enteleostomi;
Actinopter; nii: Neopter; nii: Teleostoi; Enteleostoi; Neoteleostoi;
Actatlamarpha: Acanthopter; nii: Percomorpha; Percitormes; Percoidei;
Sparilac: Sparas.
#PM_livit x175;
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"Billerential distribution of EPalpba and EPbeta menA in intrautoring tissues of the presnant thesus menkey.";
Am. J. Physical 278,0150 (198,2000).
EMBL: AF119229: AAD54069.1; %,
HSSE: P0.672; IERE.
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01-NeV-1909 (IEEMBLIEL 12, Last sequence update)
01-001 2000 (TEEMBLIEL 15, Last annotation update
ESIROGEN RECEIVER TYPE BELA.
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Mammaila; Eutheria: Primates: Catarrhini; Cercopithecidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ol-MAY 2000 (FEMBLEG), 13, Last Separate apdate) ol-may 2000 (FEMBLEG), 15, Last amoutation updatesTROGEN RESERVOR BEIA (FPASMENT).
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"Two estimates teceptors expressed in teleost fish; {\it conA} cloning characterization and tissue distribution.";
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                                     Socurro S., Power D.M., olsson P.-E., Canario A.V.M.;
                                                                        SEQUENCE FROM N.A.
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                                                          TISSUE OVARY:
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PFAM: PFO0104: hormone_rec: ].
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241 - M676NVVPVYTELLEMENARVLETTXSSTITISECSPAE 279
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Best Local Similarity 54.0
Matches 276; Conservative
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OFFICE 2000 (FERMALFOL 15, Fredted)

OFFICE 2000 (FERMALFOL 15, Fast sequence spears)

STREET 2000 (FERMALFOL 15, Fast annotation of late)

ESTROGEN RECEIVER TYPE BETA.
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EMBL. APISCRO AND COACLE .
HSSP: F0:472: THEF.
Actimopteryqii: Neopteryqii: Teleosta
Siluritormes: Tetaluridae: Tetalorus
NCBI_TaxiD-7998:
                                                                                                        letalurus punetatus (Channel cattish).
Eukaryota; Metazoa: Chordata: Craniata:
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PEAM: PEOOLO5: ZI-C4: \]
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                                                                         Teleostei; Euteleostei;
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                                                                                                                                                             ESIROGEN RECÉPTOR BETA2.
Carassius auratus (Goldish).
Carassius auratus (Goldish).
Caraniata; Vertebrata, Euteleostomi,
                                                                                                                Actinopteryqii; Neopteryqii; Teleostei, Euteledat
Cyprinilormes; Cyprinidae; Cyprininae; Carassius
                                                                                                                                                                                                                                                                                 01-0CT-2000 (TrEMBLrel. 15, Created)
01-0CT-2000 (TrEMBLrel. 15, Last sequence update)
01-0CT-2000 (TrEMBLrel. 15, Last annotation updat
                                                                                            NCBI_TaxID-7957;
                              SEQUENCE FROM
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EMBL: AF185568; AAF63157.1; -.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VRIJESCWMEYLMWAIMWRSIDHPGKLIFAPDLVLDRDBGKCVEGILEIFDMLLATTSRF
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Biochim. Biophys. Acta 1490:145-152(2000)
EMBL; AF177465; AAF35170.1; -.
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Ma Colfin Dong K.W., Yu K.L.;
"CDNA cloning and expression of a novel estrogen receptor beta-subtype
534 MIDANTSQSSRMLAAHTKASIRMDTQQTTEILHTSKUQDFALKESNQDTRHSEQAE 588
                                                                                           494 MINAHVIRGUESSITUSEUD
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                                                                                                                                                                                                                          434 TDALAWYTAKSGISSQQQSMKLANIJMIJSHVRIJASNKGMEHLLNMKGKNVVPVYDLLLE 493
                                                                                                                                                                                                                                                                                                                                                 414 EIFDMLLATTSRERELKIOREEYVOLKAMILINSSNOSHLÞÓTÞFUVESEGKVLÞILDSV
                                                                                                                                                                                                                                                                                                                                                                                                                              375 ELFOMILIATESKEKETKI ÇHKETI TVEAM ELINSSMYELVIAI GOALESKKLAHLLINAV 433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     354 KIPGEVELTLSDQVHLLECCWLDILMLGLMWRSVDHPGKLTESPDLKINRDEGTCVEGIM
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01-MAY-1999 (TYEMBLIEL 10, Created)
01-MAY-1999 (TYEMBLIEL 10, Last sequence update)
01-OCT-2000 (TYEMBLIEL 15, Last annotation update)
TYPE II ESTROGEN RECEPTOR.
Chang X.T.,
Kajiura H.,
                                                                                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euloleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei, Neoteleostei
Acanthomorpha; Acanthopterygii; Ferezmorpha, Fereilormes; Labroid
                                                                                                                                Oreochromis niloticus (Nile tilapia) (Tilapia nilotica).
                            SEQUENCE FROM N.A.
                                                                                                                                                                                                                             Q9YH32
                                                        NCBI_TaxID=8128;
                                                                        Cichlidae; oreochromis.
Kobayashi T., Todo T.
Nakamura M., Nagahama
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           Yoshiura Y.,
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Submitted Codf-(996) to the PMH_CASHBACK_ODBH_databases.

'' SUBMITTED CODE (ACALION: NUCLEAR (BY SIMILARITY)).

REMAL: 075605: AADHO246.1: -.

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Best Leval Similarity 52.0%; Pred. No. 1.1e-109;
Matches 283; Conservative 70; Mismatches 145; Indels 46;
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Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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## STRUMBERT

WP3215 DNA encoding estrogen receptor—useful in serroning assay identily novel ligands or hormanal analogues The uprofit to the proposition of the second description of the second 29-APR-1968 (First outry) W33215 Standard; Protein: 530 AA Claim 4; Page 35-37; 45pp; English N-PSDB; T88415. Dijkema K, Mosseiman S; 01-OCT-1997 EP798478-A2 Homo sapiens Sestrogen receptor protein; steroid; alternative spile.na; estradiol; estrone; estriol; screening. W33215; WEL, 1997-47 (188,/44 (ALKU ) AKES NOBEL NV 22-NOV-1996; 26-MAR-1996; 25-MAR-1997; 96EP-0203284 96EP-0209820 97EP-0200903

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RESULT
W97858
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Best Local Similarity
                                                                                                           cDNA clone. hER-beta is selectively expressed if the thymus, spleen, every and testes. The invention encompasses hEE-beta polyneclectides and polypeptides, particularly peptides which include residues 1-45 of hER-beta. The invention also provides
                                                                                                                                                                           (hER-beta), including 45 previously unknown N terminal amino acid residues that are believed to contribute to the transcription activation function of the receptor. The amino acid sequence was deduced from the nucleotide sequence (see X24364) of an isolated
                                                            expression systems in which transcriptionally active hER-beta or
transcripts can be produced, as well as screening methods for
identifying hER-beta agonists and antagonists (including
                                                                                                                                                                                                                                                                                  Claim 17; Page 42-44; 49pp; English.
Sequence
                               co-activators and inhibitors
                                              tissue-specific oestrogens and anti-oestrogens),
                                                                                                                                                                                                                                                                                                                                                 Human bestrogen receptor beta coding sequence - useful in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       W09907847-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This sequence represents a novel destroyed binding protein isolated from human testis cDNA in order to study upstream translation-initiation codons using 5° PACE-PER technology. This receptor is able to bind and be activated by estradial, estone and estrice, can be used in a screening assay for the identification of new drugs e.g. novel ligands or hormonal
                                                                                                                                                                                                                                                 This polypoptide comprises a full-length human destrogen receptor-beta
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                                                and hER-beta
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                                                                                                       Mutches 45,
                                                                                                                   Query Match
Best Local :
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Best Local :
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08-SEP-1997;
30-SEP-1997;
W98127 standard; Protein; 414 AA
                                                                                                                                                                                                          a cardiovascular disease, cancer, metabolic disorders, or central nervous system disorders. The ligand is especially used to treat osteoporosis,
                                                                                                                                                               Sequence
                                                                                                                                                                                                  breast, uterine,
                                                                                                                                                                                                                                 This sequence represents a human destrogen receptor. The receptor can be used to identify ligands that bind to human destrogen receptor. The ligands can be used in a method for preventing or treating an destrogen receptor mediated disease or condition, such as abnormal bone resorption.
                                                                                                                                                                                                                                                                                          Claim 1; Fig 1; 32pp; English.
                                                                                                                                                                                                                                                                                                                    Estrogen receptor
                                                                                                                                                                                                                                                                                                                                           N-PSDB; X34309.
                                                                                                                                                                                                                                                                                                                                                      WE ...
                                                                                                                                                                                                                                                                                                                                                                            Wilkinson H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               W09912961-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          osteoporosis; ovarian; prostate; diabetes; Aizheimer's disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; oestrogen receptor; ligand; bone resorption; metabolic disorder; cardiovascular disease; cancer; central nervous system; breast; uterine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ub-JUL-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Y07270;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Y07270 standard; Frotein; 548 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                          30-0CT-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human vestrogen receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local similarity
                                                     Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 MOINNSESSINSESSYNCSOSILELEHOSTYTESSYVDSHHEYPA 45
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97US-0060520.
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                                                                                                           100.0%;
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Pred. No. 3
                                                                                                       Misiliate hes
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                                                                                                       1ndels
                                                                                                                            Length 548;
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Best Local Similarity Mala
Nations (M) Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          the present sequence is alternatively spliced isoform rEK beta 4 of the complete obstaware receptor beta (EK beta c). Marine EK beta reclone mEK beta received which is been identified, which includes newly described exon 5B, which is located in the ligand binding domain of the receptor and is probably involved in receptor that the rEK beta 4 nucleic acid was obtained from rat ovaries. It includes seem 5B but lacks seem 6 causing a frameshift and translation of the protein 13 amino acids begind the translated eyem 5B. Also disclosed are mEE beta 1 (WWB125) and mEE beta 2 (WWB125) isoforms, and human exon 5B (V24934). Based on these sequences, the incention procless methods to anoment EK beta remediated transcriptional regulation, but block of anoment EK beta remediated transcriptional regulation, with the translated when the translation is determine whether EK beta remediated transcriptional regulation, with the first block of anoment EK beta remediated transcriptional regulation, which will be the second of the translation of the contribute whether EK beta remediated transcriptional regulation.
                                                                                                                                                                                                                                                         Y04436 Standard; Protein; 730 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sea Internation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             adents that block the transcriptional regulation of genes by ER beta c or its isotorms, which in turn modulates other biological and pathological processes. Gene therapy expression of ER beta-c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 disposis; therapy: isotorm.
                     Estiment receptor beta; oestrogen receptor beta; Ek beta
                                                                           kat rEk beta 4 elone protein sequence.
                                                                                                                                     25 INN-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     expressed in tissues of ceils, and methods of identifying and using
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MF1: 1999-142852/12
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 $6 101 1997;
26 201 1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ratins norvedicus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (HYYA ) BUNIV YALE.
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                                                                                                                                                                                                                                                                                                                                                                                              20 meikuspssisspasynesqsilplehqpiyipssyvdurheysa 64
                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 MOTKNOTODI NSESSYNOOQSITED FROSTYTESSYVESHIEYPA 45
                                                                                                                                                                                                                                                                                                                         .n
                                                                                                                                                                                                                                                                                                                                                                                                                                westroden receptor beta-3 - useful in treating and monitoring
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    414 AA:
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4 4 % 1
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Pred. No. 1e-18;
Mismarches 3; Indels
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Y04435
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Best Local Similarity
 Z1/F38211-6661 :14M
                        Baron R,
                                                                                                                                                                                                                                                                                                                              Y04435 Standard: Protein: 51:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              between the ER beta c protein and physiological, stillbend of
triphenylethylene (anti)oestrodens. The antibody which binds the protein
can be used in assays to detect activation of the ER beta protein and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention describes the marine complete eastmodel receptor beta (mEK beta c) also designated mEK beta v). The present sequence represents the rat isoform removed beta-4 of mEK beta c. The present can
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 9; Fig 20; 89pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Novel murine costronen receptor hera detes and spinor entants useful for treating costronen receptor hera mediated disorders
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                                                                                                                                            04-FEB-1999.
                                                                                                                                                                                                                        Estrogen receptor beta: postrugen receptor beta: Ek beta
                                                                                                                                                                                                                                             Murine mEK teta-z clone přetein Sequence
                                                                                                                                                                                                                                                                        25-JUN-1999 (first entry)
                                                                                                                                                                                                                                                                                                       Y () 44 35;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     can be used for subscelliglar covarisation of the profess, an of the complementary markety arid can be used to inhabit express, an of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (UYYA ) UNIV YALE.
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                                                 (UYYA ) UNIV YALE.
                                                                         30-JUL-1997;
28-JUL-1997;
                                                                                                                 28-JUL-1998;
                                                                                                                                                                      ₩19905171-A)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       be used to screen for agents that modulate or block the interaction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30-JUL-1997;
                                                                                                                                                                                                                                                                                                                                                                                             20 meiknspsslsspasynosysilplehapiyipssyvaa a ysa a 4
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9708-0054669
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9708 - 6653869 .
                                                                                                                   98Wn-US15540
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               85.18;
84.48;
                          Denton k.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Denton k,
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Matches
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Best Local Similarity
The present sequence is alternatively spliced isoform mEP beta 2 of the murine complete oestrogen receptor-beta (ER beta-c, or mEK beta-3). The mEK beta-3 gene (see X24935) contains 9 exons, including the newly described exon 5B, which is not found in ER beta-1. Exon 5B is located in the ligand binding domain of mER beta-3, and probably plays a significant role in mER beta-3 function. The mEK beta-2 clone was isolated from an embryonic stem cell genomic library. It lacks exon 3. 2 other isoforms, mER beta-1 (see W98127), have also been
                                                                                                                                                                                                                                  Human oestrogen receptor beta-3 - useful in treating and monitoring
                                                                                                                                                                                                                                                                         WP45 1999 142852/12
                                                                                                                                                                                                                                                                                                            Denton R.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention describes the murine complete oestrogen receptor beta (mER beta c: also designated mER beta-3). The present sequence represents mER beta-2, which is an isoform of mER beta c. The protein can be used to screen for agents that modulate or block the interaction between the ER beta c protein and physiological, stilbene or triphenyle; bylene (aut)) west overies. The antibody which binds the protein can be used in assays to detect activation of the ER beta protein and can be used for subcellular localisation of the ER beta protein and can be used for subcellular localisation of the protein. The
                                                                                                                                                                                  Example 2; Fig 2b; 89pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         diagnosis; therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mouse oestrogen receptor beta isoform mER beta-2
                                                                                                                                                                                                                                                                                                                                                                                 28-JUL-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Oestroden receptor;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          useful for treating oestrogen receptor-beta mediated disorders
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                                                                                                                                                                                                                                                                                                           Frasion C,
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84.4%;
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                                                                                                                                                                                                                                                                                                           Galien R,
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Pred. No. 2.4e-18;
                                                                                                                                                                                                                                                                                                         Rische-Rigon M;
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Query Match Rest Local ( Matches 3)

Local Similarity

84.2%;

Pred, No. 2.6e-18;

Length 549; Indels

0; Gaps

Mismatches

Conservative

Sequence

549

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В
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                                        beta (mER beta c; also designated mER beta-3). The present sequence represents mER beta-1, which is an isoform of mER beta c. The protein can be used to screen for agents that modulate or block the interaction between the ER beta c protein and physiological, stillbene or triphenylethylene (anti)oestrogens. The antibody which binds the protein can be used in assays to detect activation of the ER beta protein and
ER beta c nucleic acid.
           complementary nucleue acid can be used to inhibit expression of the
                              can be used for subcellular localisation of the protein. The
                                                                                                                                                     The present invention describes the marine complete overrogen receptor
                                                                                                                                                                                           Claim 9; Fig 2a; 89pp; English.
                                                                                                                                                                                                                      useful for treating oestrogen receptor beta mediated disorders
                                                                                                                                                                                                                                               Novel murine oestrogen receptor-beta genes and splice variants
                                                                                                                                                                                                                                                                                     WPT; 1999-142853/12
                                                                                                                                                                                                                                                                                                                         Baron R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               isolated, and the human exon 50 region (see X24944) has been identified. Based on these sequences, the invention provides methods for identifying agents that block or augment ER beta c mediated transcriptional regulation, methods to determine whether ER beta-e or its isoforms is being expressed in issues or cells, and methods of identifying and using agents that block the
                                                                                                                                                                                                                                                                                                                                                            (UYYA ) UNIV YALE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        04-FEB-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Murine mER beta-1 clone protein sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             transcriptional regulation of genes by ER beta-c or its isoforms, which in turn modulates other biological and pathological precesses. Gene thorapy expression of ER beta-c is envisaged.
                                                                                                                                                                                                                                                                                                                                                                                                28-JUL-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                30-JUL-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           W09905171-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Estrogen receptor beta; oestrogen receptor beta; Ek beta.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-JUN-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Y04434;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Y04434 standard; Protein; 549 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20 meiknspssitspasynosqsilplohqpi,ipasyvostheysa 64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MD1KNSPSSLNSPSSYNCSQSILFLEHGS1Y1FSSYVDSHHEYPA 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               38;
                                                                                                                                                                                                                                                                                                                        Chambon P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                510 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                97US-0053869
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84.4%;
                                                                                                                                                                                                                                                                                                                        Denton K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 200, DB 20;
Pred. No. 2.4e-18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                      Dupont S. Garnier J:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 20; Length 510;
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                                                                                                                                                                                                     Best Local S
                                                                                                                                                                   Materials
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human oestroden receptor beta-3 - useful in treating and monitoring
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPT: 1999-142852/12
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        estinate receptor: Ek beta-1; Ek beta-c; mouse; tumour; diagnesis; therapy; isotorm.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mouse destroyed receptor beta isotorm mER beta-1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            W98125 Standard; Protein; 549 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 2: Fig 2a: 89pp: Esqlish.
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                                     1 MOTKNSESSINSPASSYNČSQSITEREBOSTYTESSYYDSHHEYPA 45
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                                                                                                                                                      h 84.2%; Score 203; DB 20; Length 549;
Similarity 84.4%; Pred. No. 2.5e-18;
65; Ashsetvative 6; Mismatches 4, Indels
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9708-0054864.
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RESULT 11
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                                                                                                                                                                                                                                                                                                                                                      87186M
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Best Local Similarity 84.4%;
Matches 38; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present sequence is the marine resplete sestioned receptor teta (mER beta c) also designated mER beta c). The protein can be used to screen for agents that modulate or block the interaction between the ER beta c protein and physiclogical, stilbene or tripbenyled bytene (anti)pestrogens. The antibody which those the protein can be used to assume activation of the ER beta protein and can be used to subject to detect activation of the protein, the compression activation and combined to be used to arbitration of the protein.
                                             Mas masculas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 9; Fig 1b-t; 85pp; English.
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                                                                                             diagnosis: therapy.
                                                                                                                                                                     Mouse complete destroyen receptor beta mER beta 3
                                                                                                                                                                                                                                                                              W98128;
                                                                                                                                                                                                                                                                                                                              W98128 standard: Protein; 563
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                                                                                                                     vestigden receptor. EE beta 3) lik beta c; mouse; tumour
                                                                                                                                                                                                                        21 JUN-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              30 JUL-1997;
28-JUL-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 ra maikuspeetispäsyväsgsilptotapty) sesyväsitäysä 64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      i MDIKNSESSINSESSYN SQSILFILIGSITTESSTVISHHETIA 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    564. AA:
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Fred. No. 2000-190
G. Mismatches 4. Indexs
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W09905176-A1

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RESULT 12
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        moise embryonic stem cell denomic DNA library. 2 Alternatively spliced forms of mER beta-1 (see W98125), which lacks exob EB, and mEE beta-2 (see W98125), which lacks exob EB, and mEE beta-4 (see W98127), which lacks exob 3. A third isolorm, rER beta-4 (see W98127) was identified in rat ovaries. The human exob 5B region (see X24934) has also been identified. Based on these sequences, the invention provides methods for identifying agents that block or augment ER beta-c mediated transcriptional regulation, methods to determine whether ER beta-c or its isoforms is being expressed in lissues of collection and methods of identifications and incline methods to determine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present sequence is the murine complete costrogen temptor held (ER beta c) mER beta-3. The mER beta-3 cDNA clone (see X24935) contains 9 exons, including the newly described exon 5B, which is not found in ER beta-1. Exon 5B is located in the ligand binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10-JUL-1997;
28-JUL-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cells, and methods of identifying and using agents that block the transcriptional regulation of genes by ER beta-c or its isoforms, which in turn modulates other biological and pathological
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         separate procedures: RI-PCR of mRNA; and amplification from a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        domain of mER beta-3, and probably plays a significant role in mFR beta-3 clone was twice isolated using 2
                                                                                                                                                                                                                                          K81315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   processes.
                                                                                                                                                                                                                                                                           RB1315 standard; Protein; 668 AA.
23-JAN-1995;
                                                               M04214388-A1
                                                                                                                            [1H2] Langets interacting with HHR25-like protein-kinase isotorms;
casein-kinase 1; CKI; cell growth.
                                                                                                                                                                              Yeast TIH2
                                                                                                                                                                                                             23 DEC 1995 (tirst entry)
                                  27 - JUL - 1995
                                                                                              Saccharomyces cerevisiae
                                                                                                                                                                                                                                                                                                                                                     567 AA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gene therapy expression of ER beta-e is envisaged
                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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     95WO-US00912.
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Matches 14: Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      in which 'bait' components (CKI isoforms) were fused to the DNA binding domain of a transcription factor (lexA protein) and 'prey' components (putalive CKI interactive proteins) were fused to the transactivation domain of the transcription factor (GALA). Fusions were expressed in hosts containing a reporter gone fused to a lexA binding site. Prey-hait binding led to transcriptional activation binding site.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               To identify genes encoding proteins that interact with S. cerevisiae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 29; Page 37-39; 84pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   isolation and detection of novel DNA encoding proteins which bind to casein kinase l isoforms – useful in understanding the control of
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (ICOS-) ICOS CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21-JAN-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  S7XHH
                                                                                                                                                                                                                                                                                                                                                    Protein-protein interaction; disruption; binding protein; modulator; inhibitor; therapeutic; prophylactic, HESE's, cascin kinase fectorm; CKI protein kinase; TIH2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     were identified, and full-length genomic clones encoding Till 3 (099851-53) were isolated from genomic libraries.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         producing beta galactosidase activity. Clones HIHL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              W54168;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            W54168 standard; Protein; 668 AA
                                                                                                                                                                                                                                                                                  W09813502-A2
                                                                                                                                                                                                                                                                                                                Saccharomyces cerevisiae
                                                                                                                                                                                                                                                                                                                                                  CKI protein kinase;
                                                                                                                                                                                                                                                                                                                                                                                                                         S.cerevisiae TIH2 protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            11-ADG-1998 (first entry)
identifying agents which disrupt protein/protein interactions using host cells transformed with DNA to form transcriptional
                                                                                                                                                                           27-SEP-1996;
                                                                                                      Goodman RH, Hoekstra MF;
                                                                                                                                        (ICOS-) ICOS CORP.
                                                                                                                                                                                                             26-SEP-1997;
                                                                                                                                                                                                                                                 02-APR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                585 mlngpssansgsqllpghtngsvhsnfsygsyhde 619
                                                      N-PSDB; V21508
                                                                       WP1; 1998-230711/20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9 SINSPSSYNCESOSILPLE-HGSIYIPSSYVDSHHE 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1995-269414/35
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein kindae, a dikybrid percening method was used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       668 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9408-0184605
                                                                                                                                                                             9608-0721730
                                                                                                                                                                                                               97WO-US17276.
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40.0%;
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pred. No. 18;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        the structure and function of a particular binding protein, thus permitting identification and/or synthesis of potential modulators of the physiological activity of the binding proteins. The system can be used to identify and improve which also which are capable of inhibiting specific and remetal protein/protein interactions. Inhibitors identified by the modulos can then be examined for utility in vivo as the apoute and/or protein/protein interactions. The system provides a sensitive assay and professions is possible associated with various professions is possible associated with various professions of possible associated with various can be subject to be a profession of provides a sensitive assay and professions is possible associated with various can be subject to be a profession of provides a sensitive associated with various can be subject.
this represents a Spechirometer core-istac IIH2 p_{\rm S}\} ypeptide. Proteins that interact with case in kinase I (CKI) isoforms. T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                [HH]: recombinant: research; epitope mapping; modulating; CKI; casets known I; cell growth; health; cancer; viral intection;
                                                               Example 1: Folumis 95:158 (columns 25:34); 46pp; English.
                                                                                                            producing recombinant polypeptide
                                                                                                                           Polymetestide encoding yeast [IIII] polypeptide - useful for
                                                                                                                                                                           N PSDB; VZlay8
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                                                                                                                                                                                                                                                                                  (1998) ROS GORP.
                                                                                                                                                                                                                                                                                                                               21 JAN 1994:
                                                                                                                                                                                                                                                                                                                                                                                            23-JAN-1595;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sarcharomyces cerevisiae.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             S. Gerevisiae LIHZ polypopride
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            both known and suspected binding partner proteins in a recombinant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         used in a binding assay to identify agents which disrupt protein/protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This separate represents the S. errettine PTH2 protein (targets interacting with HKK25 like protein kinase isotorm). This protein is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 5: Page 82 87; 96pp; English
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                                                                                                                                                                                                                                                                                                                                                 JAN 1995;
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40.0%;
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": Mismatches 15;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rhoptry membrane antique of Fissmedian facely and escaped for producing antibodies and in immediation diagnostic and treatment methods for caldula.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Predicted mol. wt. is 6390 D. This stake great similarity to P. Taleiparum RMA'l protein (sequence in specification claimed)
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                                                                                      CHESTYTISSYVISHHEYPA 45
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Sapop 10.6 , Sapext 0.5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       April 19, 2971, 36:29:17 ) Search time 17.23 Seconds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Copyright (c) 1994 - 2000 Compugen Ltd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (without alignments)
46.899 Million cell updates/sec
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Fred. No. is the number of results predicted by chance to have a score areater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

<b>z</b> :	S. S. S.	Latery Match	_Hers Match Length	¥		Description
-	58.5	h. 4-	868	_ :	US 08 468 036 5	Sequence 5, Appli
t.	5α. .ງ	24.3	668	7	- 08 - 376 -	5
_	5.5	22.8	27		07	4
<u></u>	_n _n	22.8	73	_	- 1)7	س
,	,,	N. X	7 3	-	80.	17
7	1,1	22.8	7 4	£.	PCI -US96 - 05262 - 13	13,
7	55	f. f.	760		7 721 361 80 80	2, 7
χ	ري م	<u>t</u>	619	-	- U8-472-	4
,	5.5	22.0	615	_	US-08-472-934-12	12,
10	5 3	t.	619	t.	UN 08 323-460A-4	
11	`,	P	619	۲.	US:08 461 146C 4	+
	J1 x	22.9	6.1.4	tu	08-08-461-1460-12	12,
	5	22.0	615		US-08-461-145C-4	
-4	J1 J2	22.0	619	٠.	IIS-08-461-145C-12	Sequence 12, Appl
.5	67.5	21.8	452	t.	08-08-731-079A-2	'n
<u>;</u>	52.5	21. <del>8</del>	1176	_	US-08-446-486-6	6,
1.7	5.2.5	21. ∺	1176,		US-08-157-363A 10	10
<del>-</del>	52.5	t. 1. α	1176	-	US 08-463-306-6	6
	5.6.5	21. H	1176		PCT-US93-11405A-10	10,
20	52.5	Z1.8	1176	4>	PCT-0893-11405-10	10,
2!	л Ы. Л	t. α	1177		US-07-828-788A 8	œ
2.2	, 2, 5,	l. 1 α	1177		08-07-920-085-2	N.
1, 4	62.6	Z1.8	1177	۰	US-08-754-490-10	10,
h.	5.7.9	:	1177	^	US 08-754-490-12	63
۲,		l. 1. ≆	1177	۰.	US-08-754-49g-14	14,
25	6.2.5	κ. 	1177	•	48-08-754-490-26	93
7.7	,n	<u> </u>	1177			282
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9 SINSPSSYNTSESTERLE HUSDELFSSYVDSHHE 42

Sespanner for Applia	1 US 08-602 737 4	1186	21.6	5.2	J
Sequence 8, Apply	4 P. R. P. J. 1-60 St. P.	127	21.6	57	4
Parest No. 15 4799	2 12 17 19 19 19	1184	α	52.5	٠
Sequence 4. Applu	4 108 - 108 - MEE - 1411 4	1179	Ν. 	77.7	N
Estimat No. 12547 et	c, c16,47%-4-	117H	∠1.8	52.5	4
Sequence 5. Applia	1 US 08-453 408 5	1178	k: 1 . a	52.5	C
Sequence f. App.:	1 US 08-446 486 5	1178	≥1. ¤	52.5	ç
Patent No. 5169629	5 5169629-2	1177	21.8	52.5	œ
Sequence 8, Applit	4 Pril 0892 11337 H	1177	K1. x	ហ ស. ភ	,
Sequence 34, Appi	3 NS-08-322-505 A	1177	! 	(8) (2) (3)	*
Sequence 28, Appl	4. BS-132-526-80-SE F	1177	1. α	52.5	ੌ
Sequence 26. April	4 38 - 184 - 32 F - 361 - SE	1177	α	50.5	4
Sequence 14. Appl	\$1 Vyny - 726 - 80 - 511 F	1177	2.1.8	52.5	ž
Serpurance 12. Appli	71 - Wyord - 2776 - 800 - 84	1177	× 1.2	52.5	Κ.
Sequence 16. Appl	41149-525-80-83	1177	κ.	52.5	
Sequence 8. Applu	4 08-88-8-1-1-x	1177	21.8	52.5	0
Seringlice of Appell	2 UN-08-85% Ind. 5	111//	21.0	72.7	4

# ALTENMENTS

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; MOLECULE TYPE: protein 
US-08-468-036-5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              118-08-468-036-5
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APPLICATION NUMBER: 0.0,

FILING DATE: 06-JUN-1995

CLASSIFICATION: 530

PRIOR APPLICATION: DAIA:

APPLICATION: 23-JAN 1994

APPLICATION: 21-JAN 1994

ATTGAREE/YARBY INPORMATION:

NAME: No. 5728806and, Greta E.

NAME: No. 5728806and, Greta E.

ATTGAREE/ALD NOUMBER: 45,302
Query Match 24.3%, Score 5%.5 (B) Leadth 686
Best Local Similarity 40.0%; Fred. N., 7.5;
Matches 14, Conservative 5, Mismatches 15; Indexs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEX: 25:4856
THEORMATION FOR 310 II NO: 5:
SEQUENCE CHAPACTERISTICS:
LENGTH: 658 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 60066 6402
ZIP: 60066 6402
COMPUTER REALANCE FIRM:
MEDIUM TYPE: Floppy disk
COMPUTER: HM PC compositor-
OPERATING SYSTEM: PC DAS/MS PS
SOFTWARE: Fatentill Release #1.0, Versich #1.26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         THILE OF INVENTION: Materials and Methods botating to Proteins that MILLS B. INVENTION: ACCURATE ACTUAL STREET BOTTON BOTTON B. INVENTION BOTTON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REGISTRATION NUMBER: 45,302
REFERENCE/PONTKET NUMBER: 237
TELECOMMUNICATION INFORMATION:
TELEFRORE: 412/474-6300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANI: DeMaggio, Anthony J. APPLICANI: Beekstra, Merl F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEPRORE: $12,4-1.
TELEPRORE: $12/474-0448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CITY: Chicago
STAFE: Il:inois
                                                                                                                                                                                                                                                                                                                                                                                              TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY:
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SES KLMONSBANSOSOLLONGHUNGSVHSNESYOSYHDE 619

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US-07-689-693H-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  : MOLECULE TYPE: protein US-08-376-843-5
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                                                                                                                                                                                                       Sequence 4, Application BS/07689693p
Patent No. 5231011
                                                                                                                                                                                                                                                                                                                                                                                                         Mat ches
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 5, Application US/08376843 Patent No. 5846764
                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                            Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INFORMATION FOR SECTIONS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                  CORRESPONDENCE ADDRESS: ADDRESS: No. 5231011th & Western
                                                                        TITLE OF INVENTION: Segregated Folding Determinants THILE OF INVENTION: for Small Disulfide-Rich Peptides NUMBER OF SEQUENCES: 25
                                                                                                                                        APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE, THAT IN MEREL 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
APPLICATION HUBBER: US 0)
FILING DATE: 21-JAN-1994
AFTORNEY/ARTFNT INFORMATION:
NAME: NO. 5846764and, Gr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COKRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: Materials and Methods Relating to Proteins TITLE OF INVENTION: that Interact with Casein Kinase [
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Demaggio, Anthony J. APPLICANT: Hoekstra, Merl F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                        585 NENGESSANSQSQLLPQHINGSVHSNESYQSYHDE 619
ADDRESSEE: Thorpe, No. January STREET: 9035 South 700 East, Suite 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    POPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
ODERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: Chicago
STATE: Illinoi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IYPE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US, 708, 1976, 843
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE:
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                                                                                                                                                                                                                                                                                                                                                            9 SUNSPSSYNCSOSITED P-HGSTYTPSSYVDSHHE 42
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEX:
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                                                                                                                                                                                                                                                                                                                                                                                                       14; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25-3856
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6300 Sears Tower, 233 South Wacker Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               668 amino acids
                                                                                                                                        Baldomero M. Olivera
                                                                                                                                                            David Hillyard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               United States of America
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              312/474-0448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  312/474-6300
                                                                                                                                                                                                                                                                                                                                                                                                   24.3%; Score 58.5; DB 2; Length 668; 40.0%; Pred. No. 7.5, ative 5; Kismatches 15, indels
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US-07-689-693B-3
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                                                                                                                                                                                                                                                                                                                                                                                                                                            ; Sequence 3, Application US/07689693B
; Patent No. 5231011
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: (801) 566-07 INFORMATION FOR SEQ ID NO:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: :
                                                                                         CURRENT APPLICATION DATA:
                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette,
                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: Segregated Folding Determinants TITLE OF INVENTION: for Small Disultide-Rich Reptides
                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: David Hillyard APPLICANT: Baldomero M. O.
                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
LENGTH: 27 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM: MEDIUM TYPE: Diskette,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MULECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: Word Perfect 5.1 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
                                                                                                     COMPUTER: Compaq LTE/286
OPERATING SYSTEM: DOS 4.01
SOFTWARE: Word Perfect 5.1
                                     CLASSIFICATION: 530
                                                    APPLICATION NUMBER: FILING DATE: 199104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STATE: U
                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                          STATE:
                                                                                                                                                                                                                                                          CITY: Sandy
                                                                                                                                                                                                                                                                             STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: GVIA Omega constrain.
IDENTIFICATION METHOD: Direct peptide
IDENTIFICATION METHOD: Sequencing of purilied Conus geographus
IDENTIFICATION METHOD: venom
                                                                                                                                                                                                                                                                                             ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: Compaq LTE/286
OPERATING SYSTEM: DOS 4.01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEPHONE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: Western, M. Wayne REGISTRATION NUMBER: 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: none
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6 SPSSLNSPSSYNCSQSTLP 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3 SPGSSCSPTSYNCCRSCNP 21
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                                                                                                                                                                                                                                        Utah
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                                                                                                                                                                                                                                                                           9035 South 700 East, Suite 200
                                                                                                                                                                                                                                                                                                                                                                                       Baldomero M. Olivera
                                                                                                                                                                                                                         USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (801) 566-0750
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                                                                                                                                                                                                                                                                                             Thorpe, No. 5231011th & Western
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   22.8%; Score 55; DB 1
57.9%; Pred. No. 0.84;
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                                                                      US/07/689,693B
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                                                                                                                                                                3.5 inch, 720 Kb storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3.5 inch, 720 Kb storage
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismutches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 1; Length 27
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US OH 6.24-123 12
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 22.8 Rest Local Similarity 57.8 Matches 11. Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: (801) 566-0750 INFORMATION FOR SEQ ID NO.
TELEFAX: 202 952-8300
INF-9MATION FOR SEQ TO NO. 12:
SEGOESVE CHARACTERISTICS:
LENGTH: 7 CAMBRO actids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLETANT: Show, Kithon
APPLETANT: Grilley, Michalle M.
APPLITANT: STITLEY, Michalomero M.
LITLE OF INVENTION: Constant Peptides
NUMBER OF STATEMETTS: 13
                                                                                                                                                                                      APPLICATION NUMBER: US OF
FILING DATE: 17-APR-1995
ALCHENY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IHM TO compatible
FRACTING SYSTEM: PY DESCMS HOS
SOFTWARE: Patentin Release #1.0, Version #1.40
FURRENT APPLICATION DATA:
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LENGTH: 73 amino acids
[YFE: AMIN+ACID
                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION BAIA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORPESPONDENCE ADDRESS:
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                                                                                                       TELETHMENICATION INFORMATION:
                                                                                                                              NAME: Thoen, Jotfrey L. RESISTRATION NUMBER: 28 REFERENCE/100/KET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: Prep speptide sequence for four-loop HAME/KEY: Stra decar calciants from donus accurablus. Interference of the first section of the first look METHOD: disting obliqued primed pUCL3 vector then the first look METHOD: disting obliqued to primed pUCL3 vector.
                                                                                                                                                                                                                                                                                FILING DATE:
                                                                                                                                                                                                                                                                                                                                               CLASSIFICATION: 536
                                                                                                                                                                                                                                                                                                                                                                    FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                        AJAMIN NOLLY, CLISAY
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AUDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME
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1201 New York Approx N.W.
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                                                                                                                  28,957
EB: 21260-107674-5
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                                                                                                                                       PCT-US96-05262-13
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                                       Matches
                                                      Ouery Match 22.8%; Source St. 146
Best Local Similarity 57.9%; Frod. No. 1.27
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                                                                                                                                                                                                                                                                                             TELEFAX: 202-962-8400
INFORMATION FOR SEQ ID NO:
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MOLECULE TYPE: protein
HYPOTHETICAL: NO
                                                                                                                                                      MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                     TELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 17-APR-1995
AITORNEY/AGENI INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
SPERALING SYSIEM: PC DAS/MS LOS
SOFTWARE: Patentin Release #1.0, Version #1.00
                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US OF FILLING DATE: 17-APR-1995
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CITY: Washington
                                                                                                                                                                                                                TYPE: amino acid
STRANDEDNESS: sin
                                                                                                                                                                                                                                                                                                                                                                                             NAME: Saxe, Stephen A. REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                  NAME:
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STRANDEDNESS: sinale
                                                                                                                                                                                             ToPoLogY: linear
                                                                                                                                                                                                                                                       LENGTH:
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6 SPSSLNSPSSYNGSQSILF 24
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                                                                           148 41 Length 75
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48 SPUSSCSPTSYNCCRSCNP 66

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Patent No. 5675541
                                                                                                                                                                                                              GENERAL INFORMATION:
APPLICANT: JOHNSO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
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COMPUTER READABLE FORM:
                                                                                                                                 CORRESPONDENCE ADDRESS:
                                                                                                                                                                    TITLE OF INVENTION: METHOD AND PRODUCT FOR REGULATING OF INVENTION: RESPONSIVENESS TO EXTERNAL SIGNALS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REGISTRATION NUMBER: 31,801
PEFERING CONCRET INMERS ASTRELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEX: 910 277299
                                                                                                                                                        NUMBER OF SEQUENCES:
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CURRENT APPLICATION NUMBER: US_08/195.152
                                                        STREET: 60 Sta
CITY: Boston
STATE: Massac
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NAME: Trecartin, Richard
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Bonini, Namey M. APPLICANT: Leiserson, William M. APPLICANT: Benzer, Seymour
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                                                                                                                                                                                                                                                                                                                                                                    220 SVAGSNLYGGSSASNPLDGGAVAVNSSAVAAAAAAVYDGKHDY 262
                      ZIP: 02109
                                 COUNTRY:
                                                                                                                ADDRESSEE:
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CITY: San Francisco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity
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COMFUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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                                                                                         60 State Street
                                     U.S.A.
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4 Embarcadero Center, Suite 3400
                                                                                                                                                                                   JOHNSON, GARY L.
VENITION: METHOD AND PRODUCT FOR REGULATING CELL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             United States
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                                                                                                                                                                                                                                                                                                                                      Patent No.
                                                                                                                                                                                                                                                                                                                                        Sequence 12, Application US/08472934 Patent No. 5753446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
CURRENT APPLICATION DATA:
                                                                    COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                              TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NFORMATION FOR SEC ID NO: 4:
                                                                                                                                                                                                                                              NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                    APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: PUT/I
FILING DATE: 15-APR-1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-1948/MS-1948
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
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FILING DATE: 14-Oct-
PRIOR APPLICATION DATA:
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APPLICATION NUMBER: 1
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APPLICATION NUMBER:
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        MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                              COUNTRY:
                                                                                                                                                  STATE:
                                                                                                                                                                                                        ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY:
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REFERENCE/DOCKET NUMBER: CPI-004DVCP2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Giulio A. DeConti,
REGISTRATION NUMBER: 31,9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: FILING DATE: 14-OCT
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                                                                                                            02109
                                                                                                                                                                  Hoston
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                                                                                                                                                                                    60 State Street
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        22.0%; Score 53; DB 1: Length 619; 36.5%; Pred. No. 37; ative 5; Mismatches 18; Indels
                                                                                                                                                                                                                                                        RESPONSIVENESS TO EXTERNAL SIGNALS
                                                                                                                                                                                                                                                                              METHOD AND PRODUCT FOR REGULATING CELL
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PRIOR APPLICATION DATA:

APPILIDATION NUMBER: ELLING DATE: 06-JU CLASSIFICATION: 43

06-JUN-1995

US, 10472, 434

APPLICATION NUMBER: US 08/440 421

15-May-1595

FILING DATE:

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11-8: 41 + 71 - 85 - 86
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 4. Application US/U8323460A Patent No. 5854043
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INFORMATION FOR SEQ ID NOT SEQUENCE CHARACTERISTICS:
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LELED-IMMUNICATION INFORMATION:
LELED-INFORME: (617) 227-7400
                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 1
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NAME: Glulio A. DeConti, Jr. Esq.
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FILLN DATE: 15-Apr-1994
FRED APPLICATION NUMBER: 08/423,460
APPLICATION NUMBER:
                                                     MEDIUM TYPE: Floppy disk
AMPHIER: IBM RC compostable
AFRACING SYSTEM: PC [ANSZEMS FOR
S FINARE: Pated in Release #1.0, Version #1.25
CURPENI APPLICATION DAIN:
APPLICATION NUMBER: 555/08/523,466A
FILLING DAIE: 14-0CT-1994
                                                                                                                                                                                           COMPUTER READABLE FORM:
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                                                                                                                                                                                                                                                                                                                                                                                       TITLE SE INVENTION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          y Match 22.0%, Score 5%, DB 1; Length 619; Local Shollarity 86.5%; Pred. No. 87; hos 19; Conservative 5; Mismatches 18; Indels
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STREET: 1700 LINCOLN STREET, SUITE 3500
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                                      CLASSIFICATION:
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  108 08/049,254
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US-08-461-146C-4
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: Patent No. 5981265
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Matches 19; Conservative
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TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION F-R-SEQ ID-NO: 4:
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APPLICATION NUMBER: 1817/0
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PRIOR APPLICATION LAMA:
APPLICATION NUMBER: US G
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ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                     FILING DATE: 15-APR-1994
ATTOPNEY/AGENT INFORMATION:
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MEDIUM TYPE: Ploppy
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LENGTH: 619 amino acids
                                                                                                                           TELECOMMUNICATION INFORMATION:
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PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE: Floppy disk
COMPUTEM: RM PC compatible
OPERATING SYSTEM: PC-DWS/MS-DWS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US 58/424,460
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                                                                                                                                                                  REFERENCE/INCRET NUMBER: CFI:004CN3
                                                                                                                                                                                                            REGISTRATION NUMBER:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STREET:
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US-08-461-146C-12
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  Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 12, Application US/08461146C Patent No. 5981265
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APPLICANT: JOHNSO
                                                                                                                                                                       TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 12:
                                                                          MOLECULE TYPE:
                                                                                                                                  SEQUENCE CHARACTERISTICS: LENGTH: 619 amino acid:
                                                                                                                                                                                                                                                                                 ATTORNEY/AGENT INFORMATION:
NAME: KARA, Catherine J.
                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/223,460
FILING DATE: 14-OCT-1994
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                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: FILING DATE: 15-AP
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FILING DATE: 14-OCT-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US 08/049,254 FILING DATE: 15-APR-1993
                                                                                                TOPOLOGY:
                                                                                                                  TYPE:
                                                                                                                                                                                                                                                                   REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US 08/354 516 FILING DATE: 21-FEB-1995
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ToPoLoGy: linear
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DB 2,

Length 619;

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                                                                                 Matches
                                                                                             Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                    TELEFAX: (617) 227-5941 INFORMATION FOR SEQ ID NO: 4: SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                        MOLECULE TYPE: protein
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TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
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PRIOR APPLICATION DATA:
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APPLICATION NUMBER:
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197 MDQMLDPLSLSSPENSGSGSCPSLDSPLD-GESYPKSKMFRAQSYPDNHQEF 247
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SOFTMARE: Patentin Palanes
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                                                                                                                                                                                                                                                                                                                                                                                                                                      AFPLICATION NUMBER: US 08/354,516 FILING DATE: 21-FEB-1995
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FILING DATE: 14-OCT-1994
                                   1 MDIKNSPSSLNSP---SSYNCSQSTLPLEHGSTYTPS-----SYVDSHHEY 43
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60 State Street
                                                                             Conservative
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15-APR-1994
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                                                                     22.0%; Score 53; DB 3; Length 619; 36.5%; Pred. No. 37; ative 5; Mismatches 18; Indels
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Patent No. 5965428
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PRICE APPLICATION NUMBER: 08 08/454,516
APPLICATION NUMBER: 08 08/454,516
APPLICATION NUMBER: 1995
ALIGENRY/AGENT INFORMATION:
NAME: Kara, Catherine J.
NAME: Form NUMBER: P-41,106
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Fattent No. 6074861
                                                                                                                                                                                                                                                                                                                                                                   George Match (22.0%) Score 53; DB 3; Length 619; Hest Local Similarity 36.5%; Pred. No. 37; Matches 10; Conservative 5; Mismatches 18; Indels
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FILLING DATE: 14 001 1594
FROM APPILICATION NUMBER: PCI/US94/11690
FILLING DATE: 14 0011-1994
FROM APPILICATION NUMBER: PCI/US94/11690
FROM APPILICATION NUMBER: FCI/US94/04178
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                                                                                                                    SENERAL INFURMATION:
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REFERENTS/TW-CKET NUMBER: CTT 304CNI
LELEO MNUNICATION INFORMATION:
LELEPHONE: (617) 227-7400
LELEPHONE: (617) 227-5941
INFORMATION FOR SEQ ID NO: 12:
SEGDENCE CHARACTERISTICS:
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HILLE OF INVENTION: NOVEL MERK PROTEINS
NUMBER OF SEQUENCES: 12
APPLITANT: Gilbel, Amy J.
APPLITANT: Baum, James
HILLE OF INVENTION: CHIMERIT LEPIDOPLERAN-TOXIC CRYSTAL
HILLE OF INVENTION: PROTEINS
NUMBER OF SEQUENCES: 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US GEZGAS,254 FILING DATE: 11-APR-1993 PRIOR APPLICATION DATA:
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60 State Street
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Search completed: April 19, 2001, 56:29:19
Job time: 25107 see
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Best Local Similarity - 7.98
11: Conservative
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IELEO MMCRICAT: R IS: FMALTON:
IELEHHONE: 215-568-3100
TELEPAX: 215-568-4439
INFORMALION FOR SEQ ID NO. 2:
SEQUENCE CHARACTERIS.ICS:
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CLASSIPICATION: 4-8
ATTORNEY/AGENT INFORMATION:
NAME: Beatdool
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HYPOTHETICAL: NO
ANII-SENSE: NO
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CURRENI APPLICATION NAIA:
APPLICATION NUMBER: CSAMAGE 1.00 /A
FILLING DATE: 09-081-1996
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STREET: One Liberty Place 46th Floor
CITY: Philadelphia
STAIR: Ox
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ToPoLogy: not relevant
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OPERATING SYSTEM: PC DOS/MS DOS
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Perfect score:
Sequence:
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Maximum Match 100%
Listing first 45 summaries
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Maximum DA seq length: շտաբարցես
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137.265 Million cell updates/sec
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241
1 MULKNSPSSINSPSSYNCSQ...
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Fred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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protein tyresine p	2 053089	10:1	t.,	.7 4	27
hypothetical prote	2 T50464	1098	22.6	,n	25
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probable trancript	2 F37601	76.8	22.6	54.5	24
hypothetical prote	2 100875	754	22.5	54.5	1.1
NADH dehydrogenase		561	22.5	54.5	2.2
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membrane atpase	2 141055	1 115	63.6		
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C:Keywords: intramolecular transferase; isomerase

Query Match 25.9%; Score 62.5; DB L: Length 4BL: Best Local Similarity 34.7%; Pred. No. 4; Matches 17, Conservative Ic: Mismatches 17, Indexs 7, Taps

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### ALTENMENTS.

RESULT 2  143809  methylaspartate mutase (BC 5.4.99.1) large chain [simulatity, Pittobacter amazemate mutase chain E  C:Species Cittobacter amalomate mutase chain E  C:Species Cittobacter amalomate icus  C:Date. B Feb 2000 #Sequence_recision B Feb 2000 #text change 21 Jb2 2007  C:Accession: 143609  R:Kato, Y: Asamo, Y.  Appl. Microbiol. Biotechnol. 50, 468-474, 1998  A.Fille. Cloning, nacleotide sequence.rug, and expression of simethylaspartate amazema A; Reference number: 222694; MUID:7904779  A;Accession: 143605  A;Status: translated from 3E/EMNL/DDBJ  A;Residnes: 1440; KAI: A;Cross references: EMBL:AB005294; NID:q 4184-95; PIER:BAAz870BL: Fileq 4184-90  A;Experimental source: strain 36:1002	Query Match  Best Local Similarity 100.0%; Score 241; 108.2; Length, Co:  Best Local Similarity 100.0%; Fred. No. 4.6; 2.2;  Matches 45; Conservative b; Mishatches m; Indoes m; Maps  Qy i MDIKNSPSSINSPSSYNCSQSILETERSTYLESSYVESHBEYFA 4.5  [HILLET THE LITTER STYLESSYVESHBEYFA 4.5	RESULT 1 JC5939 estrough receptor beta human C:Species: Homo suplens (man) C:Species: Homo suplens (man) C:Species: O5-Feb-1939 #Sequence_rovision O5-Feb-1939 #text_change zi [all zeaus C:Accession: JC5939 R:Date: O5-Feb-1939 #Sequence_rovision O5-Feb-1939 #text_change zi [all zeaus C:Accession: JC5939 R:Date: O5-Feb-1939 #Sequence_rovision O5-Feb-1939 #text_change zi [all zeaus R:Cochem. Biophys. Res. Comman. 243, 122-126, 1938 A:Rittle: The complete primary structure of Luman estrough receptor tota (hikheta) and A:Reference number: JC5939 A;Accession: JC5939 A;Rotatus: preliminary A:Molecule type: mRNA A:Residues: 1-540 -200A A:Coss-roterences: bDBJ:AB006590: NIP(a2911151: E10N:BAA24953.1; FID:a2911152 C:Superiamily: estrough receptor: erbA transforminal protects numberoly (FB) F:147-408/Domain: erbA transforminal protects hamoloogy (FB)
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A:Molecule type: mRNA
A:Residues: 1-396 cGIR>
A:Residues: 1-396 cGIR>
C:Supertamily: unimal Kunitz-Type proteinase inhibitor bomology
C:Seywords: serine proteinase inhibitor
C:Reywords: serine proteinase inhibitor
E:53-10+;%-main: unimal Kunita type proteinase inhibitor homology :BF1>
E:125-175;%-main: unimal Kunita type proteinase inhibitor homology :BF2>
E:109-459;%-rii: unimal Kunita type proteinase inhibitor homology :BF2>
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Artifle: Complementar, CAA acquedibg of fadile disease factor pathway inhibitor receals
ArReforence number: 853425; MUID:95071310
ArAccession: 853425
ArStatus: preliminary
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ReGirard, T.J.; Gallani, D.; Broze Jr., G.J
1904 - 1904 - 1994
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A:Intrums: %10/2
A:Intrums: %10/2
A:Note: F411.20
C:Superfamily: Anabidopsis hypothetical protein F411.18
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C:Species: oryetologus cuniculus (domestic rabbit)
C:Date: 01 Aug:1995 #sequence_revision 01 Sep 1995 #text_change 16 Jul 1999
                                 hypothesica, protein 12912.2 - Caemorhabditis elegans
C:Species: Cuemorhabditis elegans
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A;Molecule type: BNA
A:Residnes: 1-209 - Rott
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A;Description: Arabidopsis thaliana chromosome II BAC F411 genomic sequence.
C;Date: 29-0ct-1999 #sequence_revision 29-0ct-1999 #tex!_change 17 Mar 2000
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36.7%: Pred. No. 4.2;
ative 5; Mismatches
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A:Grees references: EMBL:224261; NID:g418733; FID:eAA59795.1; FID:q418746
A.Experimental source, strain S2880
R:Dubois, E.; El Bakkoury, M.; Glansdorff, N.; Messenquy, F.; Pierard, A.; Scherens, submitted to the Protein Sequence Batabase, August 1794
A:Reference number: S45782
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C:Accession: T28967

R:Wammsley, P.: Bradshaw, H.

R:Wammsley, P.: Bradshaw, H.

submitted to the EMBL Data Library, January 1997

A;Bescription: The sequence of C. circums county

A;Reference number: Z20549
C:Species: Plasmodium chabaudi adami
C:Date: 14-May-1993 #sequence_revision 14-May-1993 #text change 09-Sep-1997
C:Accession: A44964
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C;Superfamily: unassigned ribonucleoprotein repeat-containing proteins; ribonucleopro-
C;Keywords: nucleus
F;86-153/Domain: ribonucleoprotein repeat homology - RRML>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R:Scherens, B.; el Bakkerry, M.: Vierendewis, F.: Indois, E.: Messendry, F.: Yeast 9, 1855-1871, 1991
A:Title: Sequencing and functional analysis of a 32 560 bp sequent on the left arm of A:Reference number: $39824; MUID:94205266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Expethetical protein YECOSI* point (Socharsopers or visiae)
NATHermate names: hypothetical protein YELOSI6
CISpecies: Saccharomyces cerevisiae
CISpecies: Saccharomyces cerevisiae
CIPate: 16-Dec-1994 #Sequence_resision 09 Sep 1994 #text_charde 24-Sep-1999
CLACVESSION, 339886, 34786, 337387
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A.Experimental source, strain Mrist.! ML, Plan 12362
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A/Molecule type: DNA
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                                                                                                                                                                                         apical membrane antigen 1 - Plasmodium chabandi adami
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 24.3%; Score 58.5; DB 2; Length 658; Bost Local Similarity 40.0%; Fred. No. 18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 24.5%;
Best Local Similarity 35.1%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           585 NINGPSSANSQSQLLPQHTNGSVHSNESYQSYHDE 619
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             26 - POPET HAZELISM SSELET VVET GENALINGSKE BELANDSKE STE TIL SVET LIST (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) (1884) 
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Pred. No. 8.6;
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k:Marshall, V.M.: Peterson, M.G.: Lew, A.M.; Kemp, D.J.
Mod. Bloethem, Parasitol. (7, 281–283, 1989)
A: Ultie: Structure of the apiral membrane actique I (AMA-1) of Plasmodium chabandi. A: Reference number: A44964; MUID: 90114335
A: Arevession: A44964
Assume CESP:K105.4
Assume CESP:K105.4
Assume position: 5
Assume position: 5
Assume 12 % a second to see the second protein K1056.4
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A:Map position: 3

A:Map position: 3

A:Introns: 11'1 - 0'2 - 52'0 - 0'4 - 0'0'2 - 6'8'22 - 6'81/2'

C:Superfamily: Schizosaccharomyces hypothetical protein SPCC1393.05
                                                                                                                                  ArExperimental Source: clone K10b6
Cydenetics:
                                                                                                                                                                                                                               A:Accession: 12:978
A:Status: preliminary: franslated from GB/EMBL/DDBJ
A:Molecule type: DNA
A:Mesidues: 1 + 0 - WIL:
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A:Modecule type: DNA
A:Residnes: 1 556 + MAR
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Cispectes: Caenorhabditis elegans
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A:Residues: 1-956 (Wood
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A:Acression: 140953
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CiSpecies: Schiensbecharemyees pombe
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                                                                                                                                                                                                                                                                                                                                                                     A: Reference number: 219763
                                                                                                                                                                                                                                                                                                                                                                                                submitted to the EMBL Data Library, June 1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Columno 15-contribus #sequence_revision 15 cent-1999 #text_change 04-Mar-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HAS SESSINSELATE LIFESESECTES ESTATUS VENDSQERY 907
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hypothetical protein YMLOIBC yeast (Sac Latomyces Cerevisiae)
B.Alternate mames, hypothetical protein M280
C.Species: Sacularizaçes rerevisiae
C.Date: 27-Apr-1996 #sequence_revision (< May-1996 #text change 20 Jun 2000
C.Acressin: 86290
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A:Note: F4I1.19
C:Superiamily: Arabidopsis hypothetical protein F4I1.18
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A:Description: Arabidopsis thaliand chromesome II BAC F4II detended sequence.

A:Reference number: 214667
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submitted to the Fretch. Sequence Latabase. April 1 of
A:Reference number: $62920
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A:Gross-reterences: FMBL:AG004521: NID:4412605: FII::4412625
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103 TYNCSECQYDVHVGCAFTPETVERFLHEHF 132
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                                                                                                        15 SYNCSOSILPLEHGSIYIPSSYVDSHHFYP 44
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33.3%; Pred. No. 12:
7ative 6: Mismatches
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transducin-like enhancer of split homolog 11.F-2

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C:Species: Homo sapiens (man)
C:Pate: 21-Jul-1995 #sequence_revision 28 Jul-1995 #text_change 26-May-2000
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A; Molecule type: mRNA
A; Residues: 1-743 <STI>
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A:Reterence number: A50695; MUID:93265135
A:Accession: C56695
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C; Superfamily: unassigned WD repeat proteins;
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A:Map position: 19p13.3-19p13.3
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A:Rosidues: 1-1315 <HIL>
A:Rosidues: 1-1315 <HIL>
A:Cross: references: EMBL:AL031324, FIBH.GAA26449.1; GSFDR:GNOBOEM; SPEEK:SPEC1672 llc
A:Experimental source: strain 972b-; cosmid c1672
G:Genetics:
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A:Accession: T41055
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C:Species: Schizosaccharomyces pombe
C:Data: 93 te: 1999 #sequence_recision 6*-mon-1999 #Fext_che
                                                                                                                                     probable X-Pro dipeptidase (EC 3.4.13.9) pepX - Mycoplasma pheumoniae (strain AICC 29343 k.Alternate names: hypothetical protein P01_orf354 C.Species: Mycoplasma pheumoniae A.Variety: MICC 29342 pheumoniae A.Variety: MICC 29362 pheumoniae C.Species: MICC 29362 Pheumoniae C.Species: MICC 29362 Pheumoniae C.Species: MICC 29362 Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Pheumoniae Phe
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A; Title: Complete sequence analysis of the genome of the bacterium Mycoplasma pneumoniad
                                               PyHimmetrojoh, R.; Hilbert, H.; Pladens, H.; Pirkl, E.; Di, B.C.; Herrmann, R. Nucloic Acids Res. 24, 4428-4449, 1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT
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Best Local Similarity 37.1%:
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Biopolymers 25, S61-S68, 1986
A;Title: Synthesis and secondary-structure determination of omega-conotoxin GVIA: a 2
A;Reference number: A49017; MUID:87049928
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R:Olivera, B.M.; McIntosh, J.M., Cruz, L.J.; Inque, F.A.; Gray, W.R.
Biochemistry 23, 5087-5090, 1984
A:Title: Purification and sequence of a presynaptic peptide toxin from Conus geograph
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; Molecule type: protein A; Residues: 46-73 <0LI>
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A;Accession: A60133
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Science 230, 1338-1343, 1985
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Note: sequence extracted from wCBI backbone (WCBIN.119531, WCBIP:119532)
                                                                                                                                                                                                                                                                                                      A;Note: disulfide bonds determined and confirmed by chemical synthesis R,Davis, J.H.; Bradley, F.K.; Miljanich, G.P.; Nadasdi, L.; Ramachandran, J.; Bashs, submitted to the Brookhaven Protein Data Hank, April 1993
A;Reference number: A51894; PDB:IOMC
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                                                                                                                                                                 A;Contents: annotation, conformation by (1)H NMK, residues 46-72
R;Davis, J.H.; Bradley, E.K.; Miljanich, G.P.; Nadasdi, L.; Ramachandran, J.; Basus,
Biochemistry 32, 1395-7405, 1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; Molecule type, protein A, Residues, 46-72 <013>
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                                                                                A; Title: Solution structure of omeda conotoxin GVIA using 2-D NMk spectroscopy and re
A;Reterence number: A58836: MUID:93332945
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Contents: annotation
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A.Status: preliminary; nucleic acid sequence not shown, translation not shown \lambda_1 \underline{\text{Molecule type: DNA}}
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A;Accession: $73697
                                                                                                                                                                                                                  C;Superfamily: X-Pro aminopeptidase
C;Keywords: dipeptide hydrolase
                                                                                                                                                                                                                                                                                      A; Gene: pepX
                                                                                                                                                                                                                                                                                                                                     A:Cross-references: EMBL:AEU00035; GB.U000089, KIL.41671914; PIDM:AAR96019.1; PID:9167
A:Note: the nucleotide sequence was submitted to the EMBL Data Library, November 1996
                                                                                                                                                                                                                                                                                                                                                                                          A; Residues.
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C:Species. Conus geographus (geography cone)
C:Date: 25-Feb-1985 #sequence_revision 2:-Mar-1995 #text_change 15 Sep-2000
C:Accession: A44006; A60133; B60133; A01785
                                                                                                                                                                                                                                                                                                                                                                                                                  omega-conotoxin GVIB precursor [validated] - cone sheii (Conus geographus)
N;Alternate names: shaker peptide GVIB
N;Contains: omega-conotoxin GVIA, omega conotoxin GVIC
A;Cross-references: GB:Mb4b14, RGb.g176525, Figh.AAA81599.1, FG5-q1070903
                                                                                                                                                       A;Title: Precursor structure of omega-conotoxin GVIA determined from a cDNA cione.
A;Reference number: A44006; MUID:93069266
                                                                                                                                                                                                                                   R;Colledge, C.J.; Hunsperger, J.P.; Imperial, J.S.; Hillyard, D.R. Toxicon 30, 1111-1116, 1992
                                                   A; Residues: 1.73 < COL>
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# SUMMARIES

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ESTROGEN RECEPTOR BETA (FRAGMENT).	01-MAY-2000 (TEMBLIE), 13, Last andotation appliate)	Ol-MAY-2000 (IFEMALES) 13, MAST SCHOOLSE BRANCE	STANDS CONTRACTOR TO STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF THE STANDS OF		OWNERS THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO THE TAXABLE TO	7.7	

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Hest Local S
Matches 45
                                                                                                PFAM: PF00104: hormone_rec; 1.
FFYAM: PF00104: .f 54, 1.
PRINTS: PR00347: STROIDEINGER.
PRINTS: PR00350: VITAMINDR.
PKINTS: PR00398: STRDHORMONER.
PROSITE: PS00031: NUCLEAR_RECEPTOR:
                                                                                 Receptor: Transcription regulation; DNA-binding; Nuclear protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                         01-FEB-1997 (TrEMBLTel. 02, Greated)
01-MAY-2000 (TrEMBLTel. 13, Last sequence update)
01-OCT-2000 (TrEMBLTel. 15, Last annotation update)
01-STROGEN RECEPTOR BETA.
Callithrix jacchus (Common marmoset).
Fukaryota; Mctazoa; Chordata; Craniata; Vertebrala; Euteleostomi;
                                                                          Zinc-finger
                                                                                                                                                                                      INTERPRO: IPRO01723;
                                                                                                                                                                                                INTERPRO, IPROUCESSO,
                                                                                                                                                                                                                              INTERPRO: IPR000324;
                                                                                                                                                                                                                                                           : THME
                                                                                                                                                                                                                                                                              Submitted (NOV-1999) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                Mammalia; Euthoria; Primates; Platyrrhini; Callitrichidae; Callithrix
                                                                                                                                                                                                                                                                                                  Scople G
                                                                                                                                                                                                                                                                                                              ILSSUE-TESTIS;
                                                                                                                                                                                                                                                                                                                             SECUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                 Submitted (NOV-1996) to the EMBL/GedBank/EDBJ databases
                                                                                                                                                                                                                                                                                                                                                                     Gaughan J
                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                         NCB1_FaxID=9483;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ឬ95171;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Q95171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INTERPRO: [PR000324; -.
INTERPRO: [PR001628;
PFAM; PF00105; z1-C4; 1.
EVINTS: PR00047; STROLUPINGER.
PRINTS: PR000350; VITAMINDR.
PROSTITE: PS00031; NUCLEAR_RECEPTOR; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Et B. Leyque E., Dotslaw H., Watson P.H., Murphy L.C.; "Cloning and functional characteristics of human estrogen receptor beta isoforms."; Submitted (JAN 1999) to the EMBLAGARAMADE, DDRI databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL: AF124790; AAD32580.1; HSSP; P03372; 1HCP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID-9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Macamalia: Butheria,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TISSUE-OVARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity
                                                                                                                                                                                                                                           SUHCELLULAR LOCATION, NUCLEAR (BY SIMILARLIY)
L; Y09372; CAA70546.2; -.
P; P03372; THCP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 MDIKNSPSSLNSPSSYNCSQSILPLEHGSTYIPSSYVDSHHEYPA 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 MEIKNEPSSENSESSYNCSOSILPLEHGSIYIPSSYVDSHHEYPA 45
                                                           530 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       323 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                           59087 MW;
     90.08,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chordata; Craniata; Vertebrata; Euteleostomi; Primates; Calarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%;
     Score 217; DB 6;
Pred. No. 2.4e-20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 241; DB 4
Pred. No. 1e-23;
                                                        45D89107A84C53D1 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    158D376C56D3CA12 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            530 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 4; Length 323;
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                Length 530;
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Q9JM97
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    Ouery Match
Best Local Similarity
Matches 37; Conserv
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                      growth.";
Submiffed (IIII-1999) to the PMRL/Octabus L/ILDE databases.
                                                                       SEQUENCE
                                                                                                                                       EMBL; AF164957; AAD45381.1; HSSP; P03372; 1HCP.
                                                                                                                                                                                       preimplantation period and its possible role in the regulation
                                                                                                                                                                                                                                                                      Pukaryota: Metaésa, eberdata, Standata, Vertebrata; Buteleostomi;
Mammaila; Butherla: Cetartiodactyla; Suina; Suidae; Sus.
                                                                                                                                                                                                                                                                                                                              01-NOV-1999 (TrEMRIFO 12, Created)
01-NOV-1999 (TrEMBLrel 12, Last sequence update)
01-OCT-2000 (TrEMBLrel 15, Last annotation update
                                                                                      NON_TER
                                                                                                Receptor.
                                                                                                             PFAM; PF00105; zf-C4; 1.
                                                                                                                                                                                                  "Expression of estrogen receptor beta by the percine embryo during the
                                                                                                                                                                                                                                                                                                                 ESTROGEN RECEPTOR BETTA (FRAGMENT).
                                                                                                                             INTERPRO;
                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                        Sus scrofa (Pig).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Q9JM97;
Q9JM97;
                                                                                                                                                                                                                                                                NCBI_TaxID=9823;
                                                                                                                                                                                                                                                                                                                                                                                           Q9XSW2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE 139 AA; 15215 MW; 4703615AE8593DAB CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NON_TER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Submitted (NOV-1999) to the EMBL/SchRank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Cloning and Characterization of the promoter region of receptor beta.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STRAIN-BALB/C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NCB1_Tax1D=10090;
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01-0CT-2000 (TrEMBLrel. 15, Last sequence update)
01-0CT-2000 (TrEMBLrel. 15, Last amotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Receptor.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mammalia; Eutheria; Rodentia; Ściuroqnathi; Muridae; Murinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ishibashi O
                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 MDIKNSPSSLNSPSSYNFGQSILPLEHGPIYIPSSYVESHHEYPA 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 MDIKNSPSSIMSPSSYNCSQSTLELEHGSIYTESSYVDSHmbyPA 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                38;
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                                                                                                                            IPR001628;
                                                                      163 AA:
                                                                                    163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                139
                                                                                                                                                                                                                                                                                                                                                                                        PRELIMINARY;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Kawashima H.;
                                                                    163
17704 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             139
             80.1%;
82.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       84.2%; Score 203; DB 11; Length 139; 84.4%; Pred. No. 3.9e-19;
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Score 193; DB 6;
Prod. No. 9.46-18;
3; Mismatches "
                                                                                                                                                                                                                                                                                                                               Last annotation update)
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                                                                    EFD9641A3U63181E CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                        163 AA
                        DB 6; Length 163;
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Submitted (ACC 1969) to the EMEL, Centent, CEBU dutabases
                                                                                           "Cloning and expression of estrogen receptor beta in the ovine overy ":
                                                                                                                                                                                                     Cardenas H., Bidsby R.M., Pope W.F., Nephew K.P.;
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                                                                         Query Match
Best Local Similarity
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Best Local Similarity
                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mat ches
                                                                                                                                                                           PFAM: PF00104; hormone_rec: 1.
PFAM: PF00105; z1-C4: 1.
PFAM: PF000047; STROIDFINGER.
PRINTS: PR00040; VIIAMINIR.
PKINTS: PR00358; SIRIHOMMONER.
PRINTS: PR00346; THYROIDFINME.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Receptor.
SEQUENCE
                                                                                                                                                                                                                                                                                              INTERPRO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   09PVE2:
01-MAY-2000 (TERMSLIGEL 13, Created)
01-MAY-2009 (TERMSLIGEL 13, Last sequence (pstate)
01-0CI-2000 (TERMSLIGEL 15, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PFAM: PF00104: hormone_rec; 1
PFAM: PF0010*: /1-04; 1.
PR:NTS; PR00047; SIROIDFINGER
                                                                                                                                                                                                                                                                                                                                                                 beta show distinct patterns of expression in telebraic send control nuclei of European starlings.", Endocrinology 140:4633-4643(1999).
                                                                                                                                                                                                                                                                                                                                                                                                            Bernard D.J., Hentley G.E., Baitharart J., Torok F.W., Bali G.F.:
"Androgen receptor, estrogen receptor applia, and estrones receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Archosauria; Aves; Neoquathae; PasserItonnes; Stornidae: Stornes
NCBI_TaxID=9172;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sturnus vuldaris (Starling).

Sturnus vuldaris (Starling).

Sturnus vuldaris (Starling).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Q9PVE2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRINTS: PRO0350; VIIAMINDE.
PRINTS: PRO0396; STECHORMONER
                                                                                                                                   Receptor.
                                                                                                                                                                                                                                                                                                                                       EMBL; AF113513; AAF
HSSP; P03372; IHCP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ESTROGEN RECEIVED BETA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INTERPRO: IPROU1628; -.
INTERPRO: IPROU1723; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HSSP; P03472; IHCP
                                                                                                                                                             PROSITE: PSOBORT: NUCLEAR_RECEIVED: 1
                                                                                                                                                                                                                                                                 INTERPRO; IPRO01728; -
                                                                                                                                                                                                                                                                                                                                                                                                                                           TISSUE-BRAIN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PROSITE: PS00031: NUCLEAR_RECEIVOR: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INTERPRO: IPRO00424;
INTERPRO: IPROU0536;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL: AF1779+6; AAD55772.1; -
                                                                                                                                                                                                                                                                                                                          INTERPRO: IPROGUAZ4:
26 EIKNSFAGVISPAPYSONOSILIAEHSFVYIPSSYMESRHEY 67
                              2 DIKNSPSSLNSPSSYNCSQSILFLEHGSIYIPSSYVESHHEY 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 MDIKNSPSSINSPSSYNCSQSILFLEBGSTYTESSYVDSHHEYPA 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEVENSESSENSEVSYNOUMS LEFTERETYLESSYVESERREYSA 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    36;
                                                                                                                                                                                                                                                                                             IPRO00536;
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                                                                                                                                   554 AA: 5217 MW:
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                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                        AAD56593.1;
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57.1%;
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80.0%;
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                                                           Mismatches
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526 17:
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RESULT
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Anquilla japonica (Japanese eel).
Enkaryota: Metazoa: Chordata; Craniata; Vertebrata; Enteleostomi;
Actinopteryqii, Neopteryqii; Teleostel; Anguilliformes; Anguilloidei;
Anquillidae; Anquilla.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-3UL-1997 (TrEMBLrel. 04, Last sequence update) 01-001-2000 (TrEMBLrel. 15, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-JUL-1997 (TrEMBLrel. 04, Created) 01-JUL-1997 (TrEMBLrel. 04, Last seq
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRESTITE: PS00031; NUCLEAR_RETEPIOR; 1
Receptor: Transcription regulation: DNA-binding; Nuclear protein;
Zinc_finger.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Submitted (APR-1997) to the EMBL/GenBank/ODPT databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCHI_TaxID 7937;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PPAM; PF00104; hormone_rec; 1.
PFAM; PF001105; zf-C4; 1.
PRINTS: PR00047; STR011DFINGER.
PRINTS: PR00398; STR0HORMONER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EMBL; AB003356;
HSSP; P03372; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDIINE:96386022; PubMed:8793852;
Todo I., Adachi S., Yamauchi K.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             l'odo
                                                                                                                                                                                                    01-NOV-1999 (TrEMBLrel, 12, Created)
01-NOV-1999 (TrEMBLrel, 12, Last sequence update)
01-OCT-2000 (IrEMBLrel, 15, Last annotation update)
SPIPR4 (EC 3.1.3.48) (FRAGMENT).
Ephydatia fluviatilis
                                                                                                                                                                                                                                                                                     Q9Y1X6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                receptor cDNA.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Molecular cloning and characterization of Japanese eel estrogen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IISSUE-LIVER,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TIMMUNITIVE ST
                                                                                        MEDLINE-94246376; PubMed-10229569;
Ono K., Shad H., Twhke N., Kuma K., Miyata T.;
"Multiple protein tyrosine phosphatases in spondes and explosive gene
                                                                                                                                                                          Eukaryota: Metazoa; Poritera; Demospongiae; Geractinomorpha;
Haploselerida; Spongillidae; Ephydatia.
                                                                                                                                                                                                                                                                     9X1X6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -i- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).
                                     J. MOI. EVOI. 48:654-662(1999).
EMBL; AB019125; BAA82558.1; -.
                                                                              duplication in the early evolution of animals before the parazoan-
                                                                                                                                    SEQUENCE FROM N.A.
                                                                                                                                                             NCBI_TaxID:31330;
                          HSSP; P18052; 1YFO.
                                                             enmetazoan split."
              INTERPRES
                                                                                                                                                                                                                                                                                                                                                       33 PTMYNGALPALSMESHAVCIPSPYTDSSHDYAA 65
                                                                                                                                                                                                                                                                                                                                                                                13 PSSYNCSÓSILPLEHGSIYIPSSYVDSHHEYPA 45
                                                                                                                                                                                                                                                                                                                                                                                                             14;
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                1pp000242;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                     PRELIMINARY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   dOH!
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                                                                                                                                                                                                                                                                                                                                                                                                                        42.48;
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                                                                                                                                                                                                                                                                                                                                                                                                              6; Mismatches
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                                                                                                                                                                                                                                                                                        PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9C64C1D8D39ED4CC CRC64;
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Best Local Similarity
Matches 13, Conserv
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25.9%; Score 62.3%;

Best Local Similarity 34.7%;

Fred. No. 3.3

Matches 17; Conservative 10; Mismatches
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PRINTS; PROOTOU; PRIVEPHITASE.

PROSITE; PS00383; TYR_PHOSPHATASE_1; 2.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.

PROSITE; PS50056; TYR_PHOSPHATASE_2; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-AUG-1998 (TrEMBLrel. 07, Created)
01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
01-AUG-1998 (TrEMBLrel. 07, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Appl. Microbiol. Biotechnol. 0:0-0(1998).
EMBL; AB005294; BAA28708.1; -.
SEQUENCE 481 AA; 52942 MW; DEFD7E51EE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    васtería; Proteobactería; qamma subdivision; Enterobacteriaceae;
                                              "Complementary DNA sequencing of carrier Lissue factor pathway inhibitor reveals a unique nanomeric repetitive sequence between the second and third Kunitz domains."; Biochem. J. 303:523-928(1994).
                                                                                                                                                                                                                                  Canıs tamiliaris (Doq).
                                                                                                                                                                                                                                                   01-NOV-1996 (TrEMBLret. 01, Created)
01-NOV-1996 (TrEMBLret. 01, Last sequence update)
01-JUN-2000 (TrEMBLret. 14, Last annotation update)
TISSUE FACTOR PATHWAY INHIBITOK.
                                                                                                                                                                                                                                                                                                                   028874;
                                                                                                                                                                                                                                                                                                                                   028874
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
                                                                                                                                SEQUENCE FROM N.A. MEDLINE=95071310; PubMed:7980463;
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                                                                                                                Girard T.J., Gailani D., Broze G.J. Jr.;
                                                                                                                                                                                NCBI_TaxID=9615;
                                                                                                                                                                                                  Mammalia; Butheria; Carnivora; Fissipedia; Canidae; Canis
                EMBL; S75369; AAB32443.1;
HSSP; P10646; lTFX.
INTERPRO: IPRO02223;
                                                                                                                                                                                                                                                                                                                                                                                                                    403 LDVPFAPASCNAGKILPVRDN.SGALRVLEAGSVPLPKDILALHHDYVA 450
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 MDIKNSPSSLNS----PSSYNCSQSILPLEHGSIYIPSSYVDSHHEYPA 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        47] AA;
                                                                                                                                                                                                                   Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          27.4%; Score 66; 32.5%; Pred. No.
                                                                                                                                                                                                                   Chordata, Craniata; Vertebrata; Enteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25.9%; Score 62.5; DB 2; Length 481; 34.7%; Fred. No. 3.3;
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X.T.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DEFD7E51EE647751 CRC64;
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No. 7.1/
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                                                                                                                                                                                                                                                                                                                                           396 AA
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Best Local Similarity
Matches 14: Conserv
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INTERPROLIFICAÇÃO (S.A.)
INTERPROLIFICAÇÃO (S.A.)
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FROSTIE: PRODUCTS: FILENINICS: 4
SOUTEN FILENINISSE.
SEQUEN'E COD AA: 4 (948 MW: 5)
                                                                                                                                         01-AUG-1998 (TrEMBLrel, 07, Steated)
01-AUG-1998 (TrEMBLrel, 07, Last sequence update)
01-N-V-1999 (TrEMBLrel, 12, Last annotation update)
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Eukaryota: Metuzoa: Chordata: Craniata: Vertebrata; Euteleostomi;
Actinopteryali; Neopteryali: Teleostei; Euteleostei; Ostariophysi;
Cyprinitonmes: Cyprinidae: Cyprininae; Carassius.
Arabidopsis thaliana (Mouse car cress).
Euricycli Viridiplactue: Paktyophyta:
Magnollophyta: eudloptylodons: core eud
                                                                                         F411.20 PROJEIN.
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HSSE: PRES72: 1HCF.
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ol olignos (IEMBLrel, 15, Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Submitted (APR-1998) to the EMBL/SemBank/SERT databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Philodakosa A.V., Pathik S., Pallard G.V.;
"Molecular cloning of an estrogen receptor beta subtype from goldfish
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ESIRWEN REFERENCE BEIA.
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Best Local Similarity 36.3
Matches 11: Conservative
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Best Local Similarity
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PP1493: PERLIMINARY: PKI: NO AN.
P91493:
01-MAY-1997 (TEMBLECL 03, Yeared)
01-MAY-1997 (TEMBLECL 03, Last Sequence update)
01-JUN-2000 (TEMBLECL 14, Last Sequence update)
SIMILAR IS THE C2 DEMAINS OF SYMAPL SAMMINS
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FROM: PPOULAR: 02: 2.

FROSTITE: PS54004: 02:D0MAIN_2:

FROSTITE: A40 AA: 43944 MW:
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Submitted (JAN 1907) to the PMRL/D Hork/Dukl database
EMBL: U80033; AA248201.]; ';
HSSP; P21707; HSSP. '.
INTERPRO; IPRODOUB; '.
INTERPRO; IPRODOUB; '.
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MEDLINE 9415071b; PubMed 79-3-398;
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NCBL_laxID-4702;
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Fied, No. 4.9;
Mismatches
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Db 78 LKOSPSPLÖSPLSNDSTPSPVVPLÖNLLEDRTRKLSPSELPSERGNISFTLSY-DSH 133

Search completed: April 19, 2001, 10:34:28 Job time: 14736 sec

litto: Perfect score: Sequence: butabase : Post processing Minimum March 0% Maximum Match 1804 Listing first 45 summaries Minimum OB seq length: 0 Maximum OB seq length: 2000B00000 lotal number of hits satisfying classes parameters: Sour ched: Scoring table: RITE OF : oM protein i protein search, using sw model April 19, 2001, 10:35:31; Sourch time 51.46 Seconds (without alignments) 29.955 Million cell updates/sec BLESUM62 Sapop lete , Gapext 0.5 108-08-996-365-2\_1547\_1\_45 241 1 MDTKNSPSSINSPSSYNOSO.....EHGSTYTPSSYVUSHHEYPA 45 SwissProt\_39:\* 93435 segs, 34255486 residues Copyright (c) 1993 - 2000 Compugen Ltd. 93435

Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Kosult N.	S fore	Match I	Length DB	5	Description
-	241	100.0	545	ESE2_HUMAN	Q92791 homo sapies
7	217	1	: C.)	ESR2_CALJA	-
_	205	H5.1	5 40	ESR2_RAT	
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ĵ.	1.9.4	HO.1	5,27	ESR2_BOVIN	
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16,	5,6,	21.2	744	TLE2_HUMAN	-
17		4. 5.	1315	Alc9_SCHPO	
1 8	55.5	23.00	35,4	AMPP_MYCPN	
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20	J. T.	22.8	73	CXO6_CONCE	
1.7	2,7	22.B	243	GIIZ_RAI	
22	7,5	22.8	74,6,	EYA_DROMF	
24	, , ,	22.8	6116	AD12_HUMAN	043184 homo sapien
2.4	 	22.6	بد اگر اگر	DAHI_KAI	P29266 rattus norv
25,	ران هم ران	5.43	868	SRYC_DROME	P15619 drosophila
26.	ر 4	22.1	1.4 4	SECTION OF SECTION	Ç61133 mas muscula
7	Ç. <u>1</u>	22.4	A	Y4XL_RHISN	P55704 rhizobium s
!. I	5.3.5	22.2	612	YND4_YEAST	-
1.3	5.5	22.2	1146	YHC3_YEASI	P38742 saccharomyc
\$0	5.4		619	M3K2_MOUSE	
÷	J.	K. N. O	1187	FENE_HUMAN	⊘15678 homo ⊵аріны
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## STATEMENTS.

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SECUENCE FROM N.A. (ISOFORM BFIA ZA).	Brandenberger A.W., Lebovic D., Taylor E.N., Jaffe F.B., Schmitted (TBN-1998) to the EMB Zaeckgre/ZBRT distribuses. [6]	SEQUENCE OF 53 530 FROM N.A. (ISSEMM REIA LA AND REIA L). LISSUE Endometrium;		"Molecular clusing and characterization of bundin estroden receptor beta ex: a potential inhibitor of estroden action in bundin.":	Ogawa S., Inoue S., Watanabe I., Orimo A., Husei I., Cuchi Y., Muramatsi M.;	8337908; PubMed-9671811;	SECORNICE FROM N.A. (ISOFORM BELA 2/1X), AND CHARACTEFIZATION.	FEBS Lett. 392:49-53(1996).	"ER beta: identification and characterization of a news lemmas estrogen receptor.":	MEDLINE 96354875; FolhMed-8755vis; Mosselman S., Folhman J., Dijkema F.:	TISSUE-Testis:	THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O	ISOTORMS.") Biochem. Biophys. Res. Commun. 247:75-7ж(1998).	1	Horne E.L., Sudiebe, Kliewer S.A., belmann J.M., Willson I.M.;		IISSUE Testis, and Breast	(2)	Biochem. Biophys. Res. Commun. 24x:122x128(1998).	(h)Rheta) and its heterodimentration with Be alpha in Tig. and in	"The complete primary structure of buman estreach receptor beta	Ogawa S., Inoto S., Watababe T., Hiroi H., Orthe A., Hessel I.,		(1)		Bukaryota; Metazoa; Chordata; Ctabiata; Vertellata: Eltele stomi; Mammalia: Potheria: Primates: Cararbina: Homensian: Home	Homo sapiens (Human).	EMRAN RECEDICK BETA (ER-BETA).	01-001-2000 (Ref. 4), Last annotation apdate)	15-JUL-1999 (Ref. 18) (Treated)	QUDEV6; QUORDA; sourced, source, analyze moder, source is a migration of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont		III) I

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J. Biol. Chem. 272:22832-22838 (2777).
-i- FUNCTION: BINDS EXPRESSION OF REPORTER GENES CONTAINING ALPHA, AND ACTIVATES EXPRESSION OF REPORTER GENES CONTAINING ALPHA, AND ACTIVATES (2007) IN AN ESTROGEN-DEPENDENT MANNER
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J. Biol. Chem. 272:25832-25838(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  In B., Loyque E., Dotzlaw H., Murphy L.J., Murphy L.C., Watson P H.; "Estrogen receptor-bota mRNA variants in human and murine tissues.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=98348389; PubMed=9685228;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "Cloning and characterization of the estrogen receptor below year
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE OF 1-69 FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE-97467383; PubMed-9325315;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Submitted (OCT-1999) to the EMBL/GenBank/DDBJ dalabases
                                                                                                                                                                                                                                          entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to licensewish-sib.ch).
                                                                                                                                                                                                                                                                                                                                                      This SWISS-PROT entry is copyright. It is produced through a collaboration between the SWISS Institute of Bioinformatics and the EMBL outstation -
                                                                                                                                                                                                                                                                                         modified and this statement is not removed.
                                                                                                                                                                                                                                                                                                                 the European Bioinformatics Institute. Th
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TISSUE SPECIFICITY: ISOFORM BETA-1 IS EXPRESSED IN TESTIS AND COVARY AND AT A LOWER LEVEL IN HEART, BRAIN, PLACEWIA, LIVER, SKELETAL MUSCIE, SPLEEN, THYMUS, PROSTATE, COLON, BONE MARROW, MAMMARY GLAND AND UTERUS. ALSO FOUN IN IMPRIME FONE, REAST, AND CVARIAN TUMOR CELL LINES, BUT NOT IN COLON, MAND LIVER TUMORS. OVARIAN TUMOR CELL LINES, BUT NOT IN COLON, AND LIVER TUMORS. ISOFORM HPTA-2 IS EXPRESSED IN SPLEEN. THYMUS. TESTIS AND OVARY AND AT A LIWER LEVEL IN SKEIFTRAL MUSCIE, PROSTATE, COLON, SMALL INTESTINE, LECKCOYTES, BONE MARROW, MAMMARY GLAND AND UTERUS. ISOFORM BETA-3 IS FOUND IN TESTIS. ISOFORM BETA-1 IS EXPRESSED IN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SUBUNITE BINDS ONA AS A HOMODIMER. CAN FORM A HETERODIMER WITH ERALUMA, ISCHORM RETA-2/CX PREFERENTIALLY FORMS A HETEREODIMER WITH ER-ALDMA PATHER THAN KERRETA AND THRIBITS DNA-BINDING BY ER-ALPHA SUBCELLULAR LOCATION: NUCLEAR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ESTROGEN RESPONSE ELEMENTS (ERE) IN AN ESTROGEN-DEPENDENT MANNER ISOFORM BETA-CX LACKS LIGAND BINDING ABILLTY AND HAS NO OK ONLY VERY LOW ERE BEHALL ACTIVITY DESCRIPING IN THE LOSS OF LIGAND-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TESTIS, AND AT A LOWER LEVEL IN SPLEEN, THYMUS, OVARY, MAMMARY GLAND AND UTERUS, ISOFORM BETA-5 IS EXPESSED IN TESTIS, FLACENT SKELETAL MUSCLE, SPLEEN AND LEWCOYTES, AND AT A LOWER LEVEL IN HEART, LUNG, LIVER, KIDNEY, PANCREAS, THYMUS, PROSTATE, COLON,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ALTERNATIVE PRODUCTS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BETA IS RAPIDLY LOST AT 37 DEGREES CELSIUS IN THE ABSENCE OF LIGAND WHILE IN THE PRESENCE OF 17 BETA-ESTRADIOL AND 4-HYDROXY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DEPENDENT TRANSACTIVATION ABILITY. DNA-BINDING BY ER-ALPHA AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BY ALTERNATIVE SPLICING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BETA-2A, BETA-3, BETA-4, BETA-5, BETA-5A AND BETA-6; ARE PRODUCED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cell. Endocrinol. 138:199-203(1998)
                                                                 AP051427; AAC05985.1; AF051428; AAC05751.1; AF061054; AAC39784.1; AF061055; AAC39785.1; AF060555; AAC39785.1; ALZ, AF060555; AAC35555.1; ALZ_INIT.
                                                                                                                                                                                                                                                                                                                                                                                                                                           A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DOMAIN
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                       AF074598; BAA31966.1;
AF074598; AAC25602.1;
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       AF074599;
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; AAC25602.1; -.
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                                                                                                                                                                                                                                                                                                              There are no restrictions ong as its content is in
                                                                                                                                                                                                                                                                                            Usage by and for commercial
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Best Local :
                                          Matches
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PRINTS; PR00047; STROIDFINGER.
PRINTS; PR00350; VITAMINDR
PRINTS; PR00398; STRDHORMONER
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Pfam: PF00105; zf-C4; 1.
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                                                                                                                                                                                                                                                                                                                                                                                         PROSITE; PS00031; NUCLEAR_RECEPTOR;
                                                                                                                                                                                                                                                                                                                                                                                                                                      PRINTS; PRO0546; THYROIDHORMR
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AF047463;
          MDTKNSPSSLNSPSSYNCSOSILPILEHGSIYIPSSYVDSHHEYPA 45
MDIKNSPSSLNSPSSYNCSQSILPLEHGSIYIPSSYVDSHIEYPA 45
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AAC03786.1;
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                                                                                                                                                                                              CHOVROTPOGAHMSVSRSRSFEACOOPRE (IN ISOFORM
                                                                                                                                                                                                                   SUKUMEHILINNKEKNYVEYVILLIBNINAHVIEGCKSSIFG
                                                                                                                                                                                                                                                   SMRGMEHLLMMRURNVVTVYTLLLLEMLNABVUBGURFSTIFG
                                                                                                                                                                                                                                                            MISSING (IN ISOFORM BEIA-b)
                                                                                                                                                                                                                                                                                                       MISSING (IN ISOFORM BETA-5A).
                                                                                                                                                                                                                                                                                                                                      PHOSPHOKYLALION
                                                                                                                      BETA-5)
                                                                                                                                 SECSPARUSKSKERSKINGREGE
                                                                                                                                          SHKOMBHLIRMKUKHVVI VI UULLEMUHAHVUFPUTSSII
                                                                                                                                                     (IN ISOFORM BETA-4)
                                                                                                                                                                        SNKOMEHLINMKEKNVVI VYDLILEMINAHVLRGCKSS 11 G
                                                                                                                                                                                                          SECSPAEDSKSKEGSONPQSQ
                                                                                                                                                                                                                                         SECSPARISKSKECGONFORD
                                                                                                                                                                                                                                                                                  DEGKCVEGILE
                                                                                                  8CAE34215992418A CRC64;
                                             Mismatches
                                                                                                                                                                                                                                                                                                                  > MRGNA (IN ISOPCRM BETĂ 2A).
                                                                                                            (IN KEE
                                                                                                                                                                                                                                                                                    -> YVPSGHSDPGC (IN ISOFORM
                                                                                                                                                                                                                                                                                               ISOFORM BEIA-ZA,
                                                                                                                                                                                                                                                                                                                                        (BY SIMILARILY).
                                              0
                                                                 Length 530;
                                                                                                                                                                                                                                                                                                                              SIMILARITY)
                                              Indels
                                                                                                                                                                                                           -> SSLSLSWRLFMLREAS
                                                                                                                                                                                                                                          RARKASOTLISFOMEM
                                                                                                                                  (IN ISOFORM
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ROX OCC PROX RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE RANGE
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01-007-2000 (Rel. 40) Last sequence update)
01-007-2000 (Rel. 40) Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CALJA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ESR2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ESR2_CALJA
Q95171;
                                                                                                                                                                                                       NCBI_TaxID=9483;
                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                      Callithrix
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ESTROGEN RECEPTOR BETA (FR-BETA).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OR NP3A2
                                                                                                                                                                                                                                                                                            lia; Eutheria,
                                                                                                                                                                                                                                                                                                                                                                                                                               jacchus (Common marmoset)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STANDARD;
                                                                                                                                                                                                                                                                                                    Chordata; Craniata; Vertebrata; Enteleoscomi;
Primatos; Plutyrrhini; Callitrichidae; Callithrix
                                                                                                                                                                                                                                                                                                                                                         Craniata; Vertebrata; Enteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRT;
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TISSUE-Testis SEQUENCE FROM N.A.

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종종환호목목성 <u>유</u>로부터 목
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                                                                                                                                                                                                                                                                                                                                                                                                                     Best Local
                                                                                                                                                                                                                                                                                                                                                                                                          Matches
               SIPALM-SERANDE DAMLEY; TISSUE PROSTATE; MEDILINE 96.24066; PubMed H650195; KHIDDO C.C. LM Bosses-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ptam: PF00104; hormone_rec: 1
Ptam: PF00105; :1-04; 1.
PkINIS: Pk30047; SIROIDFINER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  the European Bioinformatics Institute. There are no restrictions on use by non-profit institutions as long as its content is in no modified and this statement is not removed. Usage by and for commen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Submitted (NOV-1999) to the PHRE COLRECT DATABASES.

FUNCTION: BINDS ESTROGENS WITH AN AFFINITY SIMILAR TO THAT OF ER-ALPHA, AND ACTIVATES EXPRESSION OF REPORTER GENES CONTAINING ESTROGEN RESPONSE ELEMENTS (ERE) IN AN ESTROGEN-DEPENDENT MANNER.
                                                                                                                                                        ESTROGEN RECEPTOR BETA (ER-BETA)
ESRZ OF NR3AZ OR ERBETA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PROSITE: PSU0031: NUCLEAK_RECEPTOR: 1. Recognition: Nuclear protein; Recognition: Transcription regulation: ENA-binding: Nuclear protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EMBL: Y09472; CAA70546.2;
HSSP: P04472; IHCP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  entities requires a license agreement (See http://www.isb-s/b-ck/ich-u-co.or-send an email to license tisp-sib-ch)
Kuiper G.G.J.M., Enmark E., Pelto-Buikko M., Nilgson
Gustafsson J.-A.:
                                                                                          N. HI LIAXID 10116:
                                                                                                        Mammalia; futheria; Rodentia; Sciuroquathi;
                                                                                                                        Bukaryota Metazoa: Cherdata: Cramiata Vertebrata Butelecstomi
                                                                                                                                       kattus morvegicus (Rat).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               between the Swiss Institute of Bioinformatics and the
                                                                                                                                                                                                                                           0474863
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Zinc-finger: Steroid-binding;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TRINI'S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRINTS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Toldle-191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      InterPro: IPR000536;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       INTERPRES IPRODUBZ4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This SWISS-PROL entry is copyright. It is produced through a collaboration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ganghan J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEMAIN
                                                                                                                                                                                                       1 MUTKNSPSSINSPSSYNCSQSTLPLEHCSTYTPSSYVESHEYPA 45
                                                                                                                                                                                       PDE-1999 (Rel. 48, Last segmence update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SHEFELLHAR LOCATION: NUCLEAR DAMAIN: STEEDING N-TERMINAL DOMAIN A DNA-BINDING LOMAIN AND A C-TERMINAL STEEDING BONDING DOMAIN AND A C-TERMINAL STEEDING BONDING DOMAIN AND A C-TERMINAL STEEDING BONDING DOMAIN AND A C-TERMINAL STEEDING FAMILY.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SUBMINITY RINDS DNA AS A HOMODIMER OAN FORM A HETERODIMER WITH ER-
                                                                                                                                                                                                                                                                                                                                       MOTKNAPASI NSPSASYNPAGATI PLEHGPYYPYSSYVESHHEYPA 45
                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PROUSSE; SIRDHORMONER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PROUSSU: VIIAMINDR
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                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       438
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91.1%;
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169
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V
                                                                                                                                                                                                                                                                                                                                                                                                        1: Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                      Score 217, DB 1;
Pred. No. 9.6e-20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C4-TYPE.
C4-TYPE.
STEROID-RINGING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PHOSPHORYLATION (BY SIMILARITY).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUCLEAR RECEIVER-INDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     M-DULATING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Phosphorylation.
                                                                                                          Muridae;
                                                                                                                                                                                                                                                                                                                                                                                                       ); Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 530;
            s.
                                                                                                          Murinae; Rattus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL outstation
                                                                                                                                                                                                                                                                                                                                                                                                       Ç
                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
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THEME

AJ002603; CAA05632.1; CAE042058; AAB97424.1; C

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"Hissue specific responses the estrogent on expanding tased on differential activation of multiple estrogent is depicts with different differential".
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "Identification of estrogen receptor betazy a function estrogen receptor beta expressed in normal rat tissues Endocrinology 189:1082-1092(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Submitted (HIN-1996) to the EMM, every Explain of FINITY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   insertion in the ligand binding domain as a petalize domain negative regular of estrogen action.":
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SIRAIN SPRAJUE-DAWLEY: HISSUE Brain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TIMO 18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRAIN SPRAGUE - DAWLEY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Submitted (MFV-1997) to the EMBL/SetBuck/Tubl database
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRAIN-WISIAF: TISSUE-Prostate:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A. (ISOFORM BEIA 2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Biochem. Biophys. Res. Commun. 245:142 (47(15)8)
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Hashimoto S., Kato S., Kawashima H.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDILIME-980/109/10 Fabback 9/1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE OF 46-530 FROM N.A. (ISOFORM HETA 2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Cloning of a nowel receptor expressed in rat prestate and ecury." From Natl. Acad. Sci. U.S.A. 98:5025 Seke(1906).
                                                                              EMBL; U574 49; AAC52602.1;
                                                                                                                                                     or send an email to license fish sib.cb).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "A novel splice variant of estropen receptor beta tound in rat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Price R
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE OF 45-530 FROM N.A. (ISOPORMS RETAIL BELAIS DELIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "A novel isotorm of rat estrogen receptor beta with 18 innio acta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BEIA-1, 1411A - FERAN, 1111Z, FERAN, 171 AND PERAN, 1711A-3; AKE PROBERTE BY ADDERNALIVE SPECIFICALY: EXPRESSED IN PROSTATE, -VARY, TOWN, LIVER KIDNEY, FAL, BONE, HRAIN, OTHERS AND TESTIS.

DOMAIN: "COMPOSED OF THREE FOMAINS: A MODICALING NOTEMINAL FOMAIN, A DNA PINDING DOMAIN AND A COMPONING STOPPH BRIGHT IN MAIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SUBCELLULAR FORALTON: NUTLEAR S
ALTERNATIVE PROBUSTS: AT TEAST S
BETA-1 TOTAL OF PETA-1 TETES. 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FUNCTION: BINDS ESTROCENS WITH AN AFFINITY SIMILAR IN THAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                         SIMILARTIY: BELONGS TO THE NUTTEAR BORNONE RECEIVERS FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BINDING DOMAIN. ISOFORM BETA-Z SHOWS DOSS OF LIGAND KINDING
APPINITY AND SUPPRESSES FE-ALIGHA AND EP RETA-L MELIACLD
TRANSCRIPTIONAL ACTIVATION AND MAY ACT ACT A DOMINANT NEGATIVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ESTROGEN KESPONSE ELEMENTS (EGE) IN AN ESTROGEN LITERIETHE ENA
1806/SEMS EGEA 1/0617A (ANG BERA 2/0617A - ARG ONARCE ET BUNCAL
AND ACTIVATE TRANSCRIPTION EGE TO THE FRONCALTOR OF THE ENA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PL-VIER
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                                   AB012721; BAA25431.1;
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AJ002602: CAA05641.1: ALI_!NII
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BINDS DNA AS A H-MEALMER
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HIA 1 AN PELA 1, DELIAH (ARE
                                                                                                                                                                                                                                                                                                                                                                          as produced through a collisionation
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Best Local :
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ZN_FING
ZN_FING
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Pfam: PFO
Pfam: PFO
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InterPro;
IslamPra;
                                                                                                                                                                                                                                                                              MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                       CONFILICI
                                                                                                                                                                                                         "Cloning, chromosomal localization, murine estroden receptor beta."; Mol. Endocrinol. 11:35 - 365(1997).
                                                                                         SIRAIN 129/SV: TISSUD-evary:
MEDILNE-9721188; ProbMed-9958381;
Tremblay 0.8; Tremblay A., Copeland N.S., Gilbert D.J., Jenkins N.A.
                                                                                                                                                                 Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRINTS: PRO0546; THYROIDHORME.
PROSITE: PSONDAT: NUCLEAR_MECEPIOR: 1.
PROSITE: Psondat: Nuclear protein;
Pecopter: Printerial-binding Allermative splicing Phosphorylation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL: AF042960; AAB97426
EMBL: AF042061; AAB97427
EMBL: AF161187; AAD47637
HSSP: P03372; 1HCP.
 Petitersoon E.
                                                                                                                                                         NCBI, LaxID 10090;
                                                                                                                                                                                         Mus misculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRINTS: PRODAT; STROIDFINDER PRINTS: PROCASO: VITAMINDE.
          MEDLINE-97424142; PubMed:9280064;
                                                                                                                                  SEQUENCE OF 46-530 FROM N.A.,
                                                                                                                                                                                                    ESR2 OR NEGAZ OR ESTEB.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VARSHLIC
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                               SEQUENCE OF 46 530 FROM N.A., AND CHARACTERIZATION
                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
                                                                                                                                                                                                                                                                                                                                               1 MDIKNSPSSLNSPSSYNOSQS11 PHPHOSTYTPSSYVDSHHFYPA 45
                                                                                                                                                                                                                                                                                                                          1 METKNSPSSLSSPASTNCSQSTLPLEHGPTYTPSSYVDNRHEYSA 45
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PF00105; zf-c4; 1.
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                                                                                       Giquere V.;
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145
185
215
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AAB47637.1;
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Esigna dividian.
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Fred. No. 3.1e 18;
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P - PSS
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S -> P (IN REF. 3; CAA05631).
; 36E269D9ED773DA9 CRC64;
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MISSING (IN ISOFORM BETA-1/DELTA-3 AND
                                                                                                                                                                  Craniatu; Vertebrata; Euteleostomi;
Seiurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BETA-2 AND ISOFORM BETA-2/DELTA-3).
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                                                                                                                                    AND MUTAGENESIS
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                                                                             and functional
 Subballiand J. A.,
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                                                                             analysis of
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Interpro IPR001626: ...
Interpro IPR001628: ...
Interpro IPR001728: ...
Interpro IPR001728: ...
Pfam: pP00104: hormone rec: 1.
Pfam: pP00105: zf-C4; T.
Pfam: pP00105: zf-C4; T.
Pfam: pR003047: STROIDFINGER
PRINTS: PR003047: STROIDFINGER
PRINTS: PR003048: STROIDFINGER.
PRINTS: PR003048: STROIDFINGER.
PROSITE: PS00031: NUCLEAR_RECEPTOR: 1.
Receptor: Transcription regulation: DNA-binding: Nuclear protein.
Lime-linger: Steroid-binding: Alternative splining: Phosphorylat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        or send an email to license isb sib.ch).
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"Transcription and translation of estrogen receptor-beta in the male
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Lu B., Leggue E., Dotelaw H., Marphy L.J., Marphy L.C., Watson P.H., "Estrogen receptor beta mRNA variants in human and murine tissues."; "Mol. Cell. Endocrinol. 138.155 263(1998).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rosenfeld C.S., Lubahn D.B.;
Subwilled (MAY 1998) to the EMRL/Seckunk/DDR/ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STRAIN-C57BL/6J X 129;
Rosenfeld C.S., Lubahn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE OF 1-60 FROM N.A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        the Buropean Bidinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation.
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                                                                                                                                                                                                                                                                                                                                                                                                          InterPro; IPR000536;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FUNCTION: BINDS ESTROCENS WITH AN AFFINITY SIMILAR TO THAT OF EN ALTHA, AND ACTIVATES EXTRESSION OF RELACIEN DENES CHARAINING ESTROCEN RESTROCE FILEM WIS (USU) IN AN ESTROCEN DEDENDENT MANNER. SUBUNIT: BINDS DNA AS A HOMODIMER. CAN FORM A HELEKODIMER WITH EROBBUNIT: BINDS DNA AS A HOMODIMER.
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BETA-5, BETA-5A AND BETA-6; ARE PRODUCED BY ALTERNATIV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAC17919.1; ALT_IN11.
AAC16656.1;
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Lubahn D.B.;
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EMBC, "The value, "CDR" databases.
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spliring: Phosphorylation
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        Kowalski A.A., Graddy L.C., Simmen R.C.M.;
"Expression of estrogen receptor beta by the porcine embryo during the
preimplantation period and its possible role in the regulation of
arrors."
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01 001-2000 (kel. 40, Last annotation update)
ESIK-JEN RECEPTOR BEIA (EK-BEIA) (FRAGMENT).
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01 061 2000 (Ref. 40, Last seq
01 061-2000 (Ref. 40, Last ann
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ONTHING
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Mammalia: Entheria: Cetarliodactyla: Suina: Suidae: Sus.
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SIMILARLY BELONGS TO THE NUCLEAR BORRONE RETERIORS FAMILY.
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Fred. No. 2.5e-17;
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PRINTS; PROD350; VITAMINOR.
PRINTS; PROD3-8; STROHORMONER.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HSSP; P05372,
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or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      use by non-profit institutions as long modified and this statement is not removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRINTS, PRO0546; THYROLDHORMR.
PROSITE; PS00031; NUCLEAR_RECEPTOR; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Interpro; IPR000536;
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                                                                                                                                                                                                                                                                                                                                                                                                                                          Rukuryeta; Metrasaa (Rounara: Communication) Fedora, Bevoidea;
Mammalia: Eutheria, Cetartiodactylu; kaminantia, Fedora, Bevoidea;
Bovidae; (Appinae; Ovis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-001-2000 (Rel. 40, Created)
01-007-2000 (Rel. 40, Last sequence update)
01-007-2000 (Rel. 40, Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bukirjeta; Metama;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                QUIU15; QUNOT6;
                                                                                                                                                                                                                                                        Submitted (AUG-1999) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                           TISSUE-Ovary;
                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A. (ISOFORMS BETA AND BETA-1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ESR2 OR NR3A2
                                                                                                                                                                                                                                                                                    ovary
                                                                                                                                                                                                                                                                                                          "Cloning and expression of estrogen receptor beta in the ovine
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                                                                                                                                                                                                                                                                                                                                                                                                                                       NCB1_TaxID=9940;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ESTROGEN RECEPTOR BETA (ER-BETA).
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                   ALPHA (BY SIMILARITY). USLIEAR. SHPEELLULAR LOCATION: UNCLEAR. ALTERNATIVE PRODUCTS: AT LEAST 2 ISOFORMS: BETA (SHOWN HERE) AND HETA-1; ARE PRODUCED BY ALTERNATIVE SPLICING. N-TERMINAL DOMAIN. COMPOSED OF THREE PROMAINS: A MODILIATING N-TERMINAL DOMAIN.
                                                                                                                                                                                                       FUNCTION: BINDS ESTROGENS WITH AN AFFINITY SIMILAR TO THAT OF EK-ALPHA, AND ACTIVATES EXPRESSION OF REPORTER GENES CONTAINING
A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN
                                                                                                                                                           TINDRUS
                                                                                                                                                                               ESTRUGEN RESPONSE ELEMENTS (ERE) IN AN ESTROGEN-DEPENDENT MANNER
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PRINTS; PRO0350; VITAMINDR.
PRINTS; PRO0398; STEDHORMONER.
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                       Endocrinology 140:4633-4643(1999).
-i- FUNCTION: BINDS ESTROGENS WITH AN AFTINITY SIMILAR TO THAT OF ERALPHA, AND ACTIVATES EXPRESSION OF REPORTER GENES CONTAINING
                                                                                                  "Androgen receptor, estrogen receptor alpha, and estrogen receptor beta show distinct patterns of expression in torebrain song control nuclei of European starlings.";
                                                                                                                                                                                      Bernard D.J., Bentley G.E., Balthazart J., Turok F.W., Ball G.F.:
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InterPro: IPRO01728; ...
INTERPRO: IPRO047; SIRCIDEINSER,
PRINIS, PRO0450; VITAMINGA,
PRINIS, PRO0450; SIRCHSAM-MER,
PRINIS; PRO0446; THYROIDHORMR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Anguilla Japonica (Japanese eel).
Eukaryota: Metazou: Chorodata: Cramiata: Vertebrata: Euteleostomi;
Actimopterydii: Neopterydii: Teleostei: Anguillitormes: Anguilloi
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ESIROJEN RETERIOR RETA (ER-BEIA).
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receptor cLNA.";
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                                                                                                                                                Todo I., Adachi S., Yamauchi K.
                                                                                                                                                                                         MEDLINE 96 (86022; PubMed 8793852;
                                                                                                                                                                                                                                                                                                SECRENIE EF M N.A.
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Mycepter: Transcription resulation; DNA binding; Nuclear protein;
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1183HE SPECIFICITY, BRAIN, FITUTARY, SKELETAL MUSCLE, LIVER,
ALPENAL, RIDNEY, INTESTINE, AND OVARY.

LAMAIN: COMPOSED OF THERE POMAINS: A MODULATING N-TERMINAL POMAIN.
A DNA-BINGING LOMAIN AND A C-TERMINAL STEROID-BINDING DOMAIN.
ELMILARITY: PELLERIS BETTHE NUCLIAR HORMONE RECEPTORS FAMILY.
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Endocrinol, 119:37-45(1996).
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ESTROGEN RECEPT-R BELATI (ER BELATI)
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@9W669;
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Plam; PF00105; Z1:04; ].
PKINIS; PK00043: SIK010EIN.EB.
FKINIS; PK00048: SIKDBORMONER.
PR0SITE: PK00048: NUCLEAR_KEFEH e:
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SIMILARITY: BEDONGS TO THE NUCLEAR HURMONE RECEPORS FAMILY.
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Best Local Similarity
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-:- DOMAIN: COMPOSED OF THREE DOMAINS: A MODULATING N-TERMINAL DO

A DNA-BINDING DOMAIN AND A C-TERMINAL STEROID-HINDING DOMAIN

-:- SIMILARITY: BELWIGS TO THE NUCLEAR HORMONE PECEPTORS FAMILY.
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                                                                                                                                                                                                                                                                                                                                    01-FEB-1994 (Rel. 28, Created)
01-FEB-1994 (Rel. 28, Last sequence update)
01-oci-2000 (Rel. 40, Last annotation update)
HYPOTHETICAL 73.8 KDA PROTEIN IN SAS3-SEC17 INTEPGENIC PEGION
YHLO510 OR YBLU516 OR YBLU516.
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                                                                                                                                                                                                                                                                                                                    Saccharomyces screvisiae (Baker's yeast)
entities requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                        frames, including the KIF1 and SEC17 genes.":
Yeast 9:1355-1371(1993).
                                                                                                                                                                  Scherens B., of Bakkeury M., Vierchabels F., Dubois E., Mossongny F. "Sequencing and functional analysis of a 32,560 be segment on the left arm of yeast chromosome II. Identification of 26 open reading
                                                                                                                                                                                                                  MBDLINE-34205266, FabMed 8154187
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                 use by non-profit institutions as long modified and this statement is not removed.
                                                             between the Swiss Institute of Bioinformatics and the
                                                                          This SWISS-PROT entry is copyright. It is produced through a collaboration
                                   the European Bioinformatics Institute. There are no restuse by non-profit institutions as long as its content
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PIK; 837337; 837337.
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01-AGG:1990 (Rel. 15, Last sequence update)
01-NOV-1997 (Rel. 35, Last annotation updat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APICAL MEMBRANE ANTIGEN 1 PRECURSOR (MEROZOITE SURFACE ANTIGEN)
                                                                                                                                                                                                                                                                                                    Crewther P.B., Matthew M.L., Flegg R.H., Anders R.F.; "Protective immune responses to apical membrane antigen 1 of Plasmodium chabaudi involve recognition of strain-specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID:5825;
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                                                                                                                                                       This SWISS PROTECTLY is repyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                         epitopes.
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                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE OF 38-377 FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                   Marshall V.M., Peterson M.G., Lew A.M., Kemp D.J.; of plasmodium "Structure of the apical membrane antiqen I (AMA-1) of plasmodium
                                                                                                                           modified and this statement is not removed.
                                                                                                                                                                                                                -i- FUNCTION: INVOLVED IN PARASITE INVASION OF ERVITHEOGYTES.
-i- SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
i- SIMILARITY: STRONG TO AMA-1/PF83 FROM P.FALCIPARUM, P.FRAGILE AND TO PK66 FROM P.KNOWLEST.
                                                                                                                                                                                                                                                                                                                                                                STRAIN-DK;
Majarja, Signal; Transmembrane; Antiqen; Glycoprotein.
                           EMBL; A08270; CAA00765.1; -
EMBL; U49745; AAB36511.1; -
PIR; A44964; A44964
                                                                       EMBL; M25248; AAA90929.1;
                                                                                              entitles requires a license afroment (Somberge //www.lebeshb.ch/announce/or send an email to license@isb-sib.ch).
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01 - #T-1996 (Rel. 34, Created)

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HYP-JHETICAL 69.6 KDA PROTEIN IN HUAL-PUBL INTERGENIC REGION
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15 JUL-1998 (Rel.
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SEQUENCE FROM N.A.

MEDILINE-98440331; PubMed 9767718;

Clark M.A., Haumann L., Baumann F.;

Thuchnera application a (Aplid condesymbion) of utalins denote the Allia

"Buchnera application bioscortiosis.";
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Toxin: Sporblation: Plasmid.
SEQUENCE __263 AA: __29843 MW: __4794794794364 FF6794
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Strain T301.";
Supmitted (0000100) to the EMECAN PERSON EMESTS BY MAKING PORCS IN
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-1- SIMILARITY: BELONGS TO THE CYLL/CYLZ ENDOLOGIN FAMILY.
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_204470; 1CBY.
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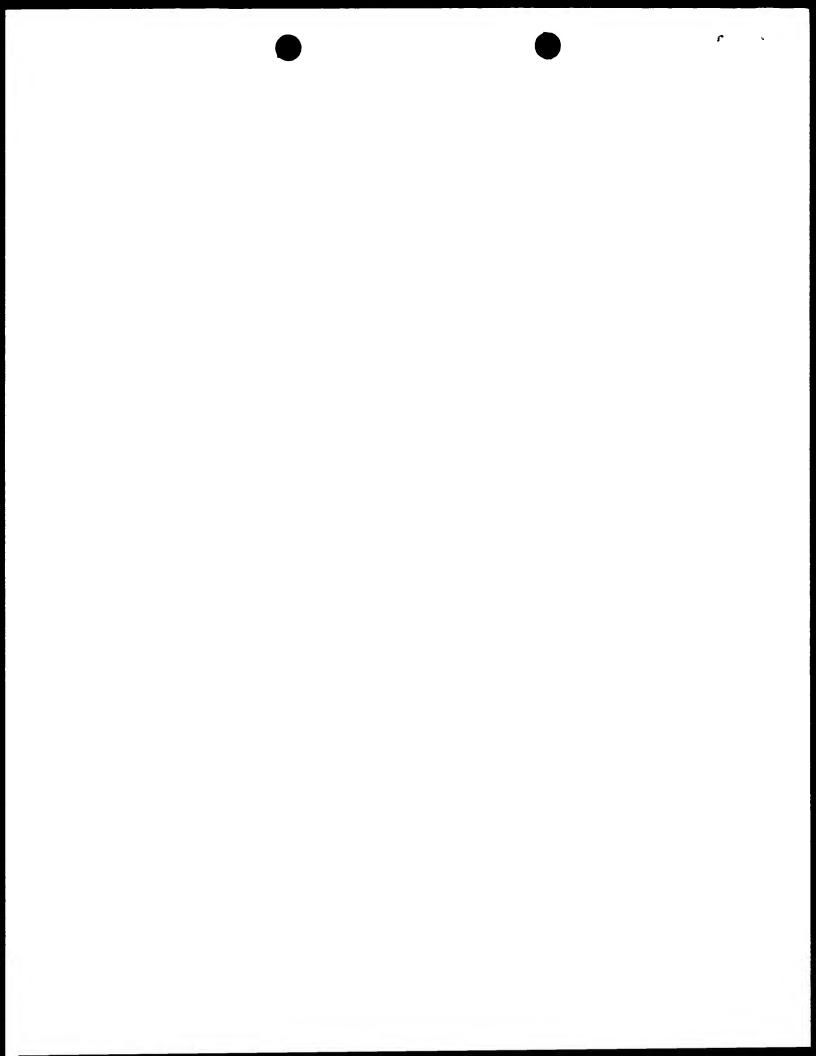
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Search completed: April 19, 2001, 10:35:35
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-I- FURCTION, THIS FROTEIN IS CONSIDERED AS A BIFUNCTIONAL ENZYME, POSSESSING TWO ACTIVE SITES, ONE AN ALCOHOL DEHYDROGENASE AND THE OTHER AN ALDEHYDE DEHYDROGENASE (BY SIMILARITY).

-I- CATALYTIC ACTIVITY: L-HISTIDINOL + 2 NAD(+) = L-HISTIDINE +
                                                                                                                                                                                                                                                                                                                           InterPro: IPR001917; -.
Plan: PE00815; Histidinol_dh; 1.
PRINTS; PR00083; HOLDHDRGNASE.
PROSIYE; PS00611; HISOL_DEHYDROGENASE; FALSE_NEG.
Histidine bioxynthesis. Maltitus-tional enzyme, Gvidot-
sequenci. 435 AA; 47737 MW; CD2538762B62BDE2 CR264;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    the European Hioinformatics Institute. There are no restrictions on its by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This SWISS PROT entry is copyright. It is produced through a collaboration between the Swiss institute of Bioinformatics and the EMBL outstation -
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-!- SUBUNIT: HOMODIMER (BY SIMILARITY).
-!- SIMILARITY: TO OTHER PROKARYOTIC, FUNGAL AND PLANTS HDB.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro: IPR001692; -
                                                                                                                 106 SPIDIETQVGVRQQQIYLPLNSVGIYIPS 134
                                                                                                                                                               6 SPSSLNSPSSYNCSOSILPLEHGSTYTPS 34
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30-SEP-1497;
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bestrogen receptor; ligand; bone resorption; metabolic disorder; cardiovascular disease: cancer: central pervous system; breast; uterine;
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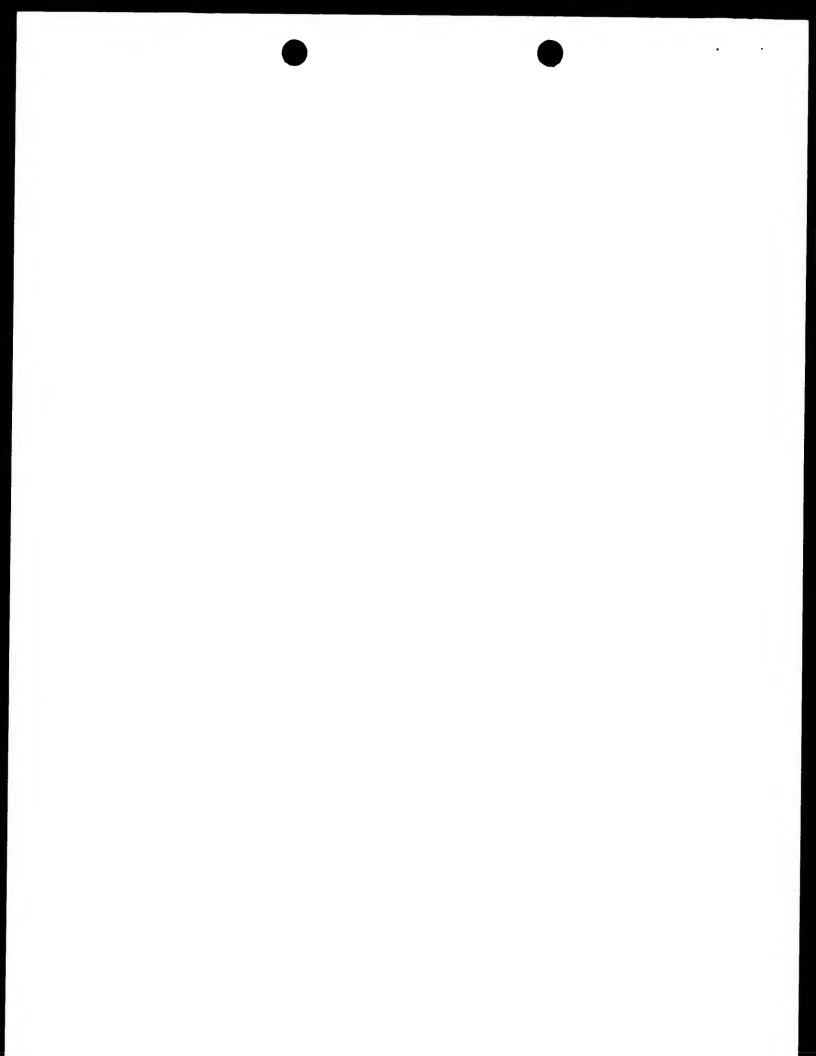
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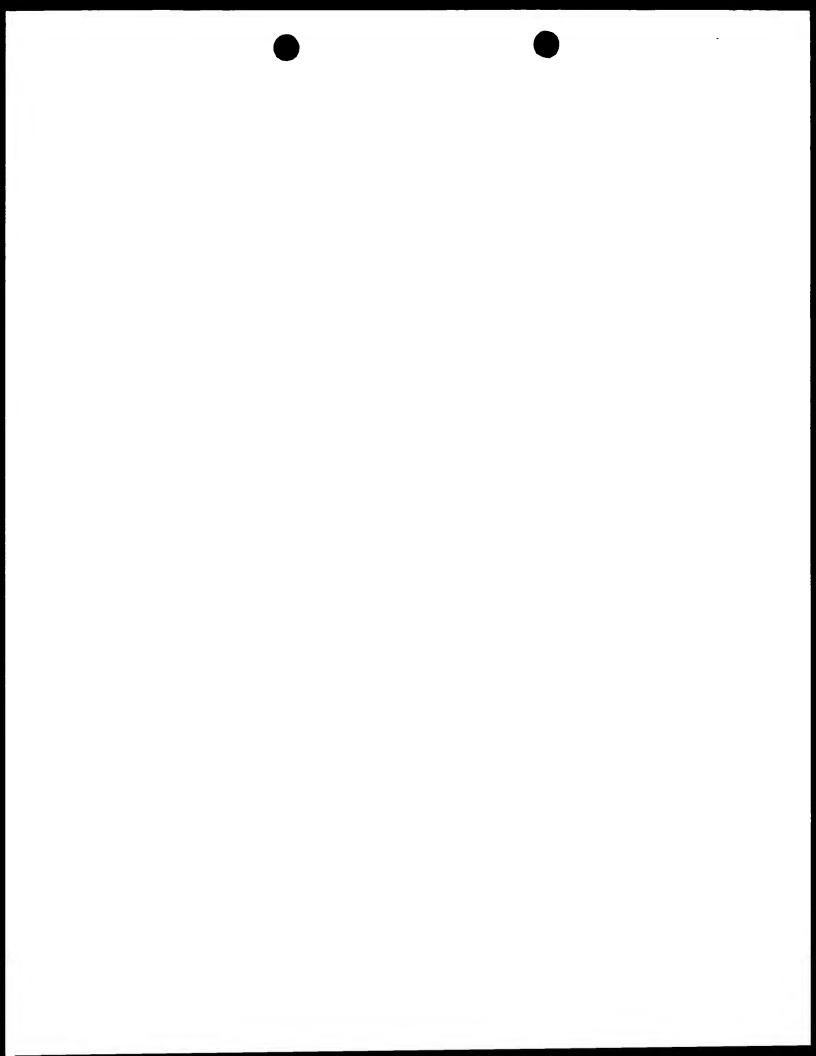


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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present sequence represents an estrogen receptor beta. The specification describes a method for screening test compounds for differential estrogen receptor (ER) alpha mediated and ER beta-mediated activation at an API site. The method is used for identifying compounds which can be used in therapy.
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